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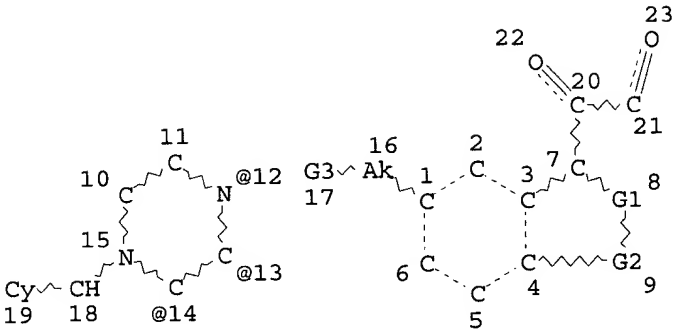

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NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

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ENTER SCOPE OF SEARCH (SAMPLE), FULL, RANGE, OR SUBSET:subset
ENTER SUBSET L# OR (END):l10
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100.0% PROCESSED 47 ITERATIONS 47 ANSWERS
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COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
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FILE COVERS 1907 - 17 Dec 2002 VOL 137 ISS 25
FILE LAST UPDATED: 16 Dec 2002 (20021216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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=> d bib abs 1-2

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2002:408665 CAPLUS
DN 136:401784
TI Preparation of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase
IN Dugar, Sundeep; Luedtke, Gregory; Tan, Xuefei
PA Scios Inc., USA
SO PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002042292	A2	20020530	WO 2001-US43441	20011120
	WO 2002042292	A3	20021017		
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	AU 2002026911	A5	20020603	AU 2002-26911	20011120
PRAI	US 2000-252197P	P	20001120		
	WO 2001-US43441	W	20011120		

OS MARPAT 136:401784
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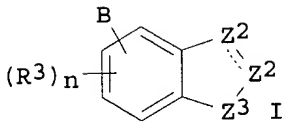

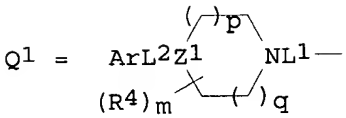

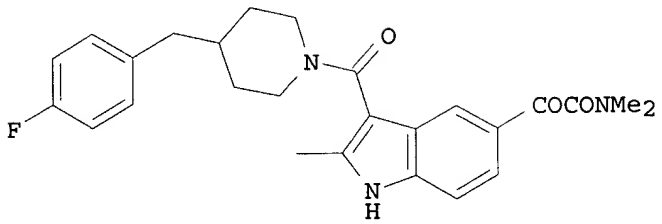

II

AB [Title compds. I; dotted line = optional double bond; B = WiCOXjY; Y = COR2, isostere thereof; R2 = H, noninterfering substituent; W, X = spacer of 2-6 .ANG.; i, j = 0, 1; R3 = noninterfering substituent; n = 0-3; Z3 = NR7, O; R7 = H, noninterfering substituent; 1 Z2 = C, CR8A, the other = CR1, C(R1)2, NR6, N; R1, R6, R8 = H, noninterfering substituent; A = Q1; Z1 = CR5, N; R5 = H, noninterfering substituent; p, q = 0-2; p+q = 0-3; Ar = aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; R4 = noninterfering substituent; m is 0-4; L1, L2 = linker; the distance between the atom of Ar linked to L2 and the center of the Z2-contg. ring = 4.5-24.ANG.], were prepd. as inhibitors of p38-.alpha. kinase (no data). Thus, title compd. (II) was prepd. in several steps starting from 4-nitrophenylglyoxylic acid.

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2000:842127 CAPLUS
DN 134:17503
TI Preparation of 5-[4-benzylpiperidinyl(piperazinyl)]-indolecarboxamides as inhibitors of p38 kinase
IN Mavunkel, Babu J.; Chakravarty, Sarvajit; Perumattam, John J.; Dugar, Sundeep; Lu, Qing; Liang, Xi
PA Scios Inc., USA
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000071535	A1	20001130	WO 2000-US14003	20000519
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1178983	A1	20020213	EP 2000-939322	20000519
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	BR 2000011274	A	20020226	BR 2000-11274	20000519
	NO 2001005655	A	20020118	NO 2001-5655	20011120
PRAI	US 1999-316761	A	19990521		
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US 2000-202608P P 20000509
WO 2000-US14003 W 20000519
OS MARPAT 134:17503
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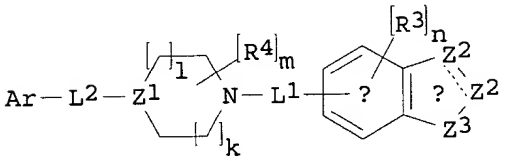

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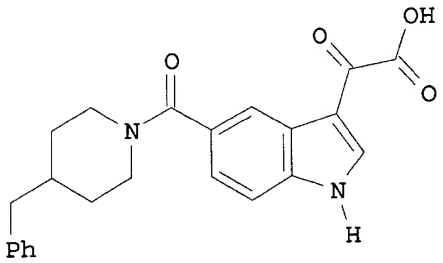

II

AB The title compds. [I; one Z2 = CA, CR8A and the other = CR1, CR12, NR6, N (wherein R1, R6, R8 = H, noninterfering substituent; A = WiCOXjY; Y = COR2, an isostere; R2 = H, noninterfering substituent; W, X = spacer of 2-6.ANG.; i, j = 0-1); Z3 = NR7, O; R3 = noninterfering substituent; n = 0-3; L1, L2 = linker; R4 = noninterfering substituent; m = 0-4; Z1 = CR5, N (R5 = H, noninterfering substituent); l, k = 0-2, wherein the sum of l and k = 0-3; Ar = aryl substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; the distance between the atom of Ar linked to L2 and the center of the .alpha. ring is 4.5-24.ANG.] which inhibit p38-.alpha. kinase (biol. data given), were prepd. Thus, treating 6-methoxy-(4-benzylpiperidinyl)-indole-5-carboxamide with oxalyl chloride in CH2Cl2 afforded the indole-5-carboxamide II.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs hitstr 1

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2002:408665 CAPLUS
DN 136:401784
TI Preparation of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase
IN Dugar, Sundeep; Luedtke, Gregory; Tan, Xuefei
PA Scios Inc., USA
SO PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002042292	A2	20020530	WO 2001-US43441	20011120

WO 2002042292 A3 20021017
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2002026911 A5 20020603 AU 2002-26911 20011120
PRAI US 2000-252197P P 20001120
WO 2001-US43441 W 20011120
OS MARPAT 136:401784
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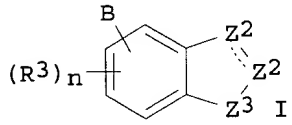

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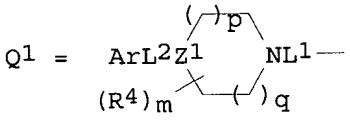
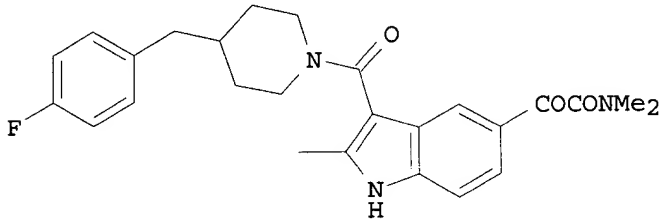




II

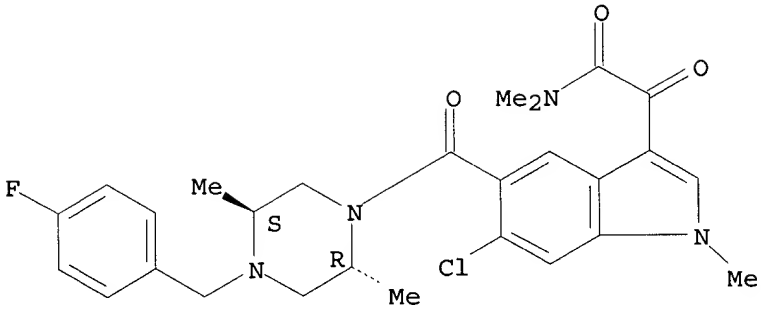
AB [Title compds. I; dotted line = optional double bond; B = WiCOXjY; Y = COR2, isostere thereof; R2 = H, noninterfering substituent; W, X = spacer of 2-6 .ANG.; i, j = 0, 1; R3 = noninterfering substituent; n = 0-3; Z3 = NR7, O; R7 = H, noninterfering substituent; 1 Z2 = C, CR8A, the other = CR1, C(R1)2, NR6, N; R1, R6, R8 = H, noninterfering substituent; A = Q1; Z1 = CR5, N; R5 = H, noninterfering substituent; p, q = 0-2; p+q = 0-3; Ar = aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; R4 = noninterfering substituent; m is 0-4; L1, L2 = linker; the distance between the atom of Ar linked to L2 and the center of the Z2-contg. ring = 4.5-24.ANG.], were prepd. as inhibitors of p38-.alpha. kinase (no data). Thus, title compd. (II) was prepd. in several steps starting from 4-nitrophenylglyoxylic acid.

IT **309915-13-7P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase)

RN 309915-13-7 CAPLUS

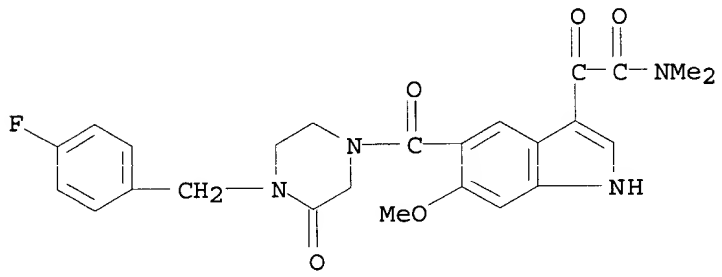
CN 1H-Indole-3-acetamide, 6-chloro-5-[[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]carbonyl]-N,N,1-trimethyl-.alpha.-oxo-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



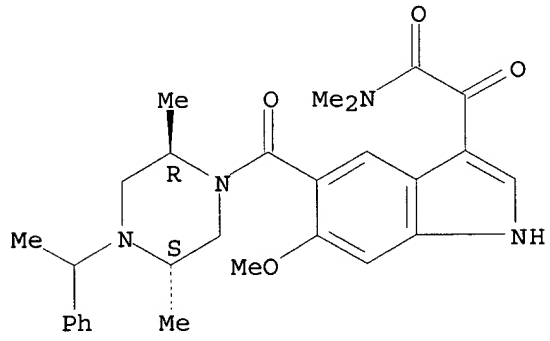
IT **309915-14-8 309915-15-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase)

RN 309915-14-8 CAPLUS
CN 1H-Indole-3-acetamide, 5-[[4-[(4-fluorophenyl)methyl]-3-oxo-1-piperazinyl]carbonyl]-6-methoxy-N,N-dimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)



RN 309915-15-9 CAPLUS
CN 1H-Indole-3-acetamide, 5-[[(2R,5S)-2,5-dimethyl-4-(1-phenylethyl)-1-piperazinyl]carbonyl]-6-methoxy-N,N-dimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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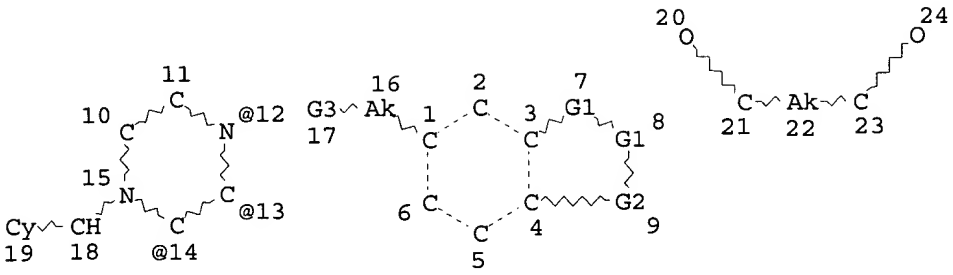

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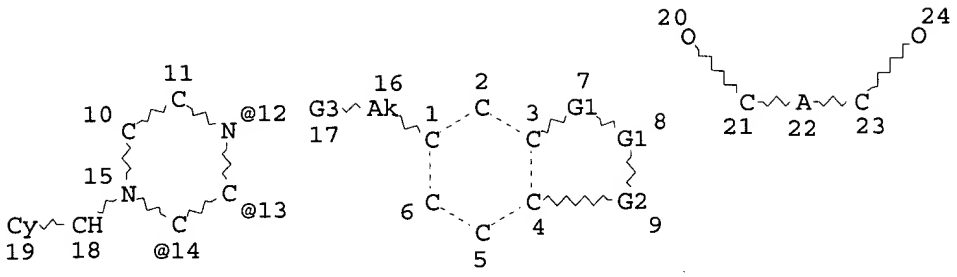

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AN 2000:842127 CAPLUS
DN 134:17503
TI Preparation of 5-[4-benzylpiperidinyl(piperazinyl)]-indolecarboxamides as inhibitors of p38 kinase
IN Mavunkel, Babu J.; Chakravarty, Sarvajit; Perumattam, John J.; Dugar, Sundeep; Lu, Qing; Liang, Xi
PA Scios Inc., USA
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1178983	A1	20020213	EP 2000-939322	20000519
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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	NO 2001005655	A	20020118	NO 2001-5655	20011120
PRAI	US 1999-316761	A	19990521		
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OS MARPAT 134:17503
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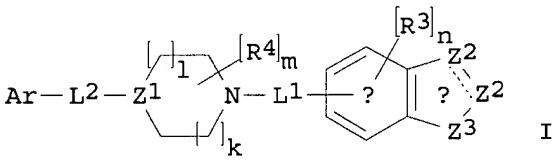

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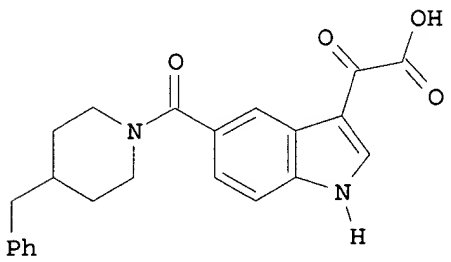


II

AB The title compds. [I; one Z2 = CA, CR8A and the other = CR1, CR12, NR6, N (wherein R1, R6, R8 = H, noninterfering substituent; A = WiCOXjY; Y =

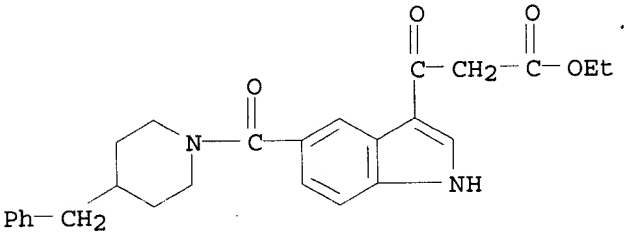
COR2, an isostere; R2 = H, noninterfering substituent; W, X = spacer of 2-6.ANG.; i, j = 0-1); Z3 = NR7, O; R3 = noninterfering substituent; n = 0-3; L1, L2 = linker; R4 = noninterfering substituent; m = 0-4; Z1 = CR5, N (R5 = H, noninterfering substituent); l, k = 0-2, wherein the sum of l and k = 0-3; Ar = aryl substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; the distance between the atom of Ar linked to L2 and the center of the .alpha. ring is 4.5-24.ANG.] which inhibit p38-.alpha. kinase (biol. data given), were prepd. Thus, treating 6-methoxy-(4-benzylpiperidinyl)-indole-5-carboxamide with oxalyl chloride in CH2Cl2 afforded the indole-5-carboxamide II.

IT **309915-11-5P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 5-[4-benzylpiperidinyl(piperazinyl)]-indolecarboxamides as inhibitors of p38 kinase)

RN 309915-11-5 CAPLUS

CN 1H-Indole-3-propanoic acid, .beta.-oxo-5-[[4-(phenylmethyl)-1-piperidinyl]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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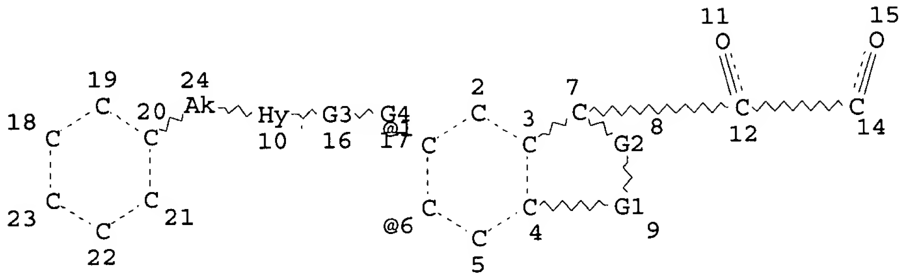
L13 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 7
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

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FULL SEARCH INITIATED 11:38:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 56667 TO ITERATE

100.0% PROCESSED 56667 ITERATIONS 190 ANSWERS
SEARCH TIME: 00.00.03

L15 190 SEA SSS FUL L13

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	141.80	293.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

FILE 'CAPLUS' ENTERED AT 11:38:54 ON 17 DEC 2002

of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 17 Dec 2002 VOL 137 ISS 25
FILE LAST UPDATED: 16 Dec 2002 (20021216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

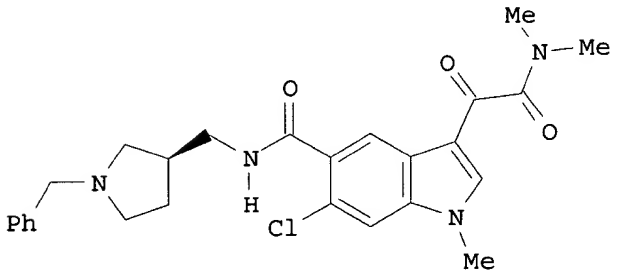
=> s l15
L16 3 L15

=> d bib abs 1-3

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2002:428896 CAPLUS
DN 137:6088
TI Preparation of indolecarboxamides as p38-.alpha. inhibitors
IN Dugar, Sundeep; Mavunkel, Babu J.; Luedtke, Gregory R.; Mcenroe, Glen
PA Scios Inc., USA
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044168	A2	20020606	WO 2001-US43439	20011120
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002037657	A5	20020611	AU 2002-37657	20011120
PRAI	US 2000-252163P	P	20001120		
	WO 2001-US43439	W	20011120		

OS MARPAT 137:6088
GI



I

AB Title compds. were prepd. as p38-.alpha. inhibitors (no data). Thus, 6-chloro-1-methyl-1H-indole-5-carboxylic acid was amidated by (R)-3-aminomethyl-1-benzylpyrrolidine followed by acylation and amidation to give title compd. I.

L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2002:408665 CAPLUS
DN 136:401784
TI Preparation of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase
IN Dugar, Sundeep; Luedtke, Gregory; Tan, Xuefei
PA Scios Inc., USA
SO PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002042292	A2	20020530	WO 2001-US43441	20011120
	WO 2002042292	A3	20021017		
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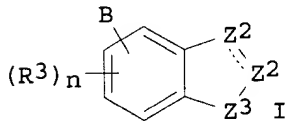
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002026911	A5	20020603	AU 2002-26911	20011120
PRAI	US 2000-252197P	P	20001120		
	WO 2001-US43441	W	20011120		

OS MARPAT 136:401784
GI



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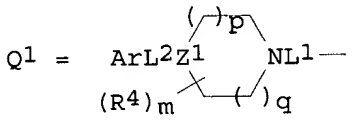
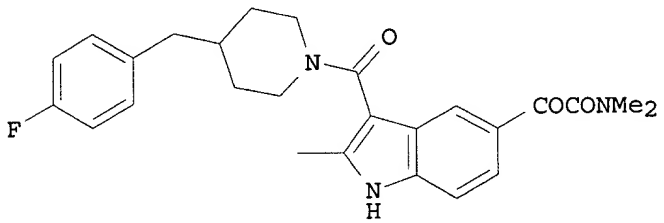




II

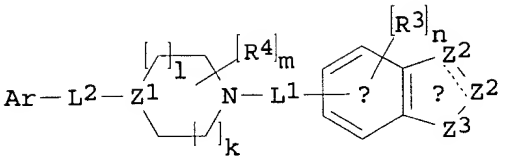
AB [Title compds. I; dotted line = optional double bond; B = WiCOXjY; Y = COR2, isostere thereof; R2 = H, noninterfering substituent; W, X = spacer of 2-6 .ANG.; i, j = 0, 1; R3 = noninterfering substituent; n = 0-3; Z3 = NR7, O; R7 = H, noninterfering substituent; 1 Z2 = C, CR8A, the other = CR1, C(R1)2, NR6, N; R1, R6, R8 = H, noninterfering substituent; A = Q1; Z1 = CR5, N; R5 = H, noninterfering substituent; p, q = 0-2; p+q = 0-3; Ar

= aryl group substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; R4 = noninterfering substituent; m is 0-4; L1, L2 = linker; the distance between the atom of Ar linked to L2 and the center of the Z2-contg. ring = 4.5-24.ANG.], were prepd. as inhibitors of p38-.alpha. kinase (no data). Thus, title compd. (II) was prepd. in several steps starting from 4-nitrophenylglyoxylic acid.

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2000:842127 CAPLUS
DN 134:17503
TI Preparation of 5-[4-benzylpiperidinyl(piperazinyl)]-indolecarboxamides as inhibitors of p38 kinase
IN Mavunkel, Babu J.; Chakravarty, Sarvajit; Perumattam, John J.; Dugar, Sundeep; Lu, Qing; Liang, Xi
PA Scios Inc., USA
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000071535	A1	20001130	WO 2000-US14003	20000519
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1178983	A1	20020213	EP 2000-939322	20000519
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 2000011274	A	20020226	BR 2000-11274	20000519
	NO 2001005655	A	20020118	NO 2001-5655	20011120
PRAI	US 1999-316761	A	19990521		
	US 1999-154594P	P	19990917		
	US 2000-202608P	P	20000509		
	WO 2000-US14003	W	20000519		

OS MARPAT 134:17503
GI



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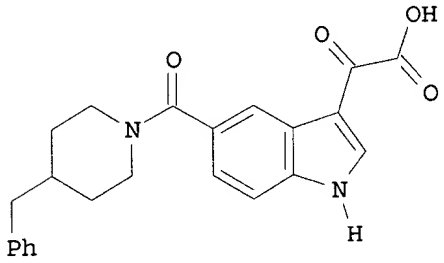

II

AB The title compds. [I; one Z2 = CA, CR8A and the other = CR1, CR12, NR6, N (wherein R1, R6, R8 = H, noninterfering substituent; A = WiCOXjY; Y = COR2, an isostere; R2 = H, noninterfering substituent; W, X = spacer of 2-6.ANG.; i, j = 0-1); Z3 = NR7, O; R3 = noninterfering substituent; n = 0-3; L1, L2 = linker; R4 = noninterfering substituent; m = 0-4; Z1 = CR5, N (R5 = H, noninterfering substituent); l, k = 0-2, wherein the sum of l and k = 0-3; Ar = aryl substituted with 0-5 noninterfering substituents, wherein two noninterfering substituents can form a fused ring; the distance between the atom of Ar linked to L2 and the center of the .alpha. ring is 4.5-24.ANG.] which inhibit p38-.alpha. kinase (biol. data given), were prepd. Thus, treating 6-methoxy-(4-benzylpiperidinyl)-indole-5-carboxamide with oxalyl chloride in CH2Cl2 afforded the indole-5-carboxamide II.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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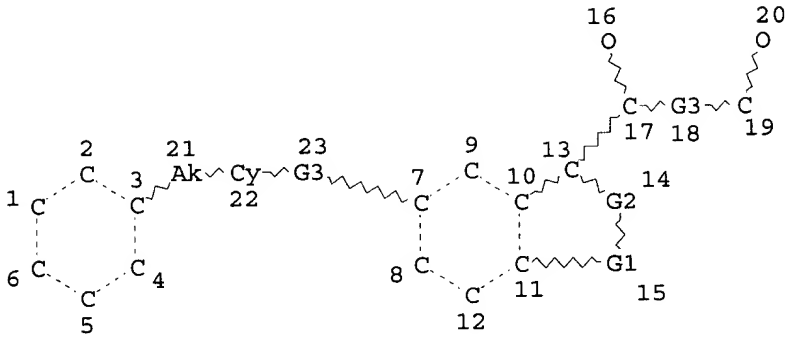
L9 HAS NO ANSWERS
L9 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

=> s l9 ful
FULL SEARCH INITIATED 11:50:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 29468 TO ITERATE

100.0% PROCESSED 29468 ITERATIONS 200 ANSWERS
SEARCH TIME: 00.00.07

L11 200 SEA SSS FUL L9

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	280.94	424.09

FILE 'CAPLUS' ENTERED AT 11:50:21 ON 17 DEC 2002

FILE COVERS 1907 - 17 Dec 2002 VOL 137 ISS 25
FILE LAST UPDATED: 16 Dec 2002 (20021216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l11
L12 4 L11

=> d bib 1-4

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 2002:428896 CAPLUS
DN 137:6088
TI Preparation of indolecarboxamides as p38-.alpha. inhibitors
IN Dugar, Sundeep; Mavunkel, Babu J.; Luedtke, Gregory R.; Mcenroe, Glen
PA Scios Inc., USA
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044168	A2	20020606	WO 2001-US43439	20011120
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002037657	A5	20020611	AU 2002-37657	20011120
PRAI	US 2000-252163P	P	20001120		
	WO 2001-US43439	W	20011120		

OS MARPAT 137:6088

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 2002:408665 CAPLUS
DN 136:401784
TI Preparation of piperidinylcarbonyl- and piperazinylcarbonylindolylglyoxylates and -amides as inhibitors of p38-.alpha. kinase
IN Dugar, Sundeep; Luedtke, Gregory; Tan, Xuefei
PA Scios Inc., USA
SO PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002042292	A2	20020530	WO 2001-US43441	20011120
	WO 2002042292	A3	20021017		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

RN 129605-73-8 REGISTRY

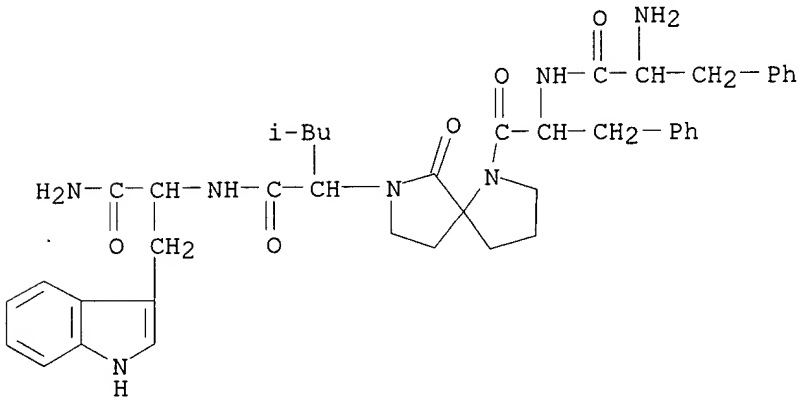
CN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-.alpha.-(2-methylpropyl)-6-oxo-1-(N-L-phenylalanyl-L-phenylalanyl)-, [5S-[5R*,7[R*(R*)]]]- (9CI)** (CA INDEX NAME)

FS PROTEIN SEQUENCE

MF **C42 H51 N7 O5**

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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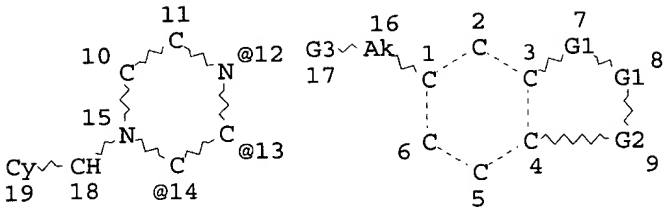
L8 HAS NO ANSWERS
L8 STR



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VAR G2=O/N
VAR G3=12/13/14
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 1 10
NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

=> s l8 ful
FULL SEARCH INITIATED 11:02:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 265531 TO ITERATE

100.0% PROCESSED 265531 ITERATIONS 346 ANSWERS
SEARCH TIME: 00.00.05

L10 346 SEA SSS FUL L8

AN 1997:369604 CAPLUS
DN 126:343487
TI Preparation of N-(2-substituted-3-(2-aminoethyl)-1H-indol-5-yl) amides as new 5-HT1F agonists
IN Fritz, James Erwin; Hahn, Patric James; Kaldor, Stephen Warren; Siegel, Miles Goodman; Xu, Yao-Chang
PA Lilly, Eli, and Co., USA
SO Eur. Pat. Appl., 52 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 768301	A1	19970416	EP 1996-307334	19961009
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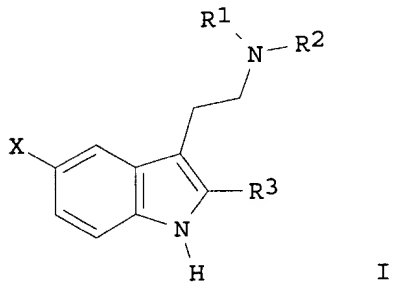
	CA 2234166	AA	19970417	CA 1996-2234166	19961008
	WO 9713512	A1	19970417	WO 1996-US16122	19961008
	W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9672611	A1	19970430	AU 1996-72611	19961008
	JP 11513666	T2	19991124	JP 1996-515134	19961008
	EP 994109	A2	20000419	EP 1999-204311	19961009
	EP 994109	A3	20000503		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
	US 5942536	A	19990824	US 1998-43360	19980313
	US 5998630	A	19991207	US 1999-316871	19990521
	US 6126932	A	20001003	US 1999-416043	19991012
PRAI	US 1995-5213P	P	19951010		
	US 1996-15851P	P	19960522		
	WO 1996-US16122	W	19961008		
	EP 1996-307334	A3	19961009		

OS MARPAT 126:343487
GI



I

AB The title compds. [I; R1, R3 = H, C1-4 alkyl; R2 = C1-4 alkyl, C3-8 cycloalkyl, cycloalkyl-(C1-3 alkylene), etc.; X = NHC(O)R4, NHC(Y)NR5R6, NHC(O)OR7, NHSO2R8 (wherein R4 = C1-4 alkyl, (un)substituted Ph, naphthyl, etc.; R5, R6 = H, C1-6 alkyl, C3-6 alkenyl, etc.; R5R6 = pyrrolidino, piperidino, morpholino, etc.; R7 = C1-6 alkyl, C3-6 alkenyl, Ph, etc.; R8 = C1-4 alkyl, (un)substituted Ph, di(C1-4 alkyl)amino; Y = S, O)] and their salts, novel 5-HT1F agonists useful for the treatment of migraine and assocd. disorders, were prepd. and formulated. Thus, cyclization of

N,N-dimethyl-5-amino-2-pentanone with 4-[(4-fluorobenzoyl)amino]phenylhydr azine in the presence of conc. HCl in EtOH afforded 63% I.HCl [R1 = R2 = Me; R3 = Me; 4-FC6H4C(O)NH]. Representative compds. I were found to have an affinity at the 5-HT1F receptor of Ki .ltoreq. 1.5 .mu.M.

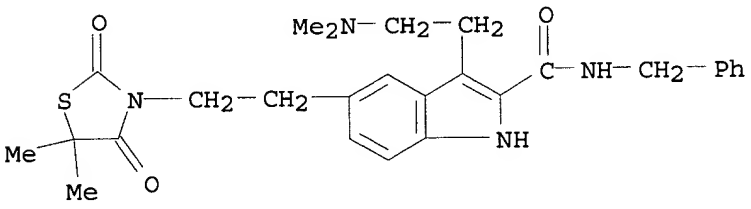
AN 1999:605549 CAPLUS
DN 132:49849
TI Synthesis and serotonergic activity of a series of 2-(N-benzyl)carboxamido-5-substituted-N,N-dimethyltryptamine derivatives: novel antagonists for the vascular 5-HT1B-like receptors
AU Moloney, Gerard P.; Martin, Graeme R.; Mathews, Neil; Hobbs, Heather; Dodsworth, Susan; Sang, Pang Yih; Knight, Cameron; Maxwell, Miles; Glen, Robert C.
CS Department of Medicinal Chemistry, Victorian College of Pharmacy (Monash University), Parkville, 3052, Australia
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1999), (19), 2699-2711
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
GI

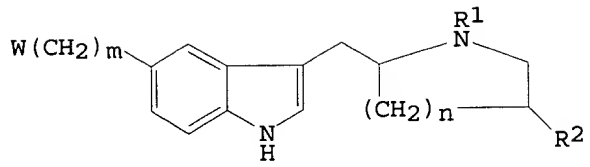
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The synthesis and vascular **5-HT1B**-like receptor activity of a novel series of 2-(N-benzyl)carboxamido-5-substituted-N,N-dimethyltryptamine derivs. is described. Modifications to the 5-ethylene linked heterocycle are explored. Compds. such as N-benzyl-5-[2-(phthalimido)ethyl]-3-[2-(dimethylamino)ethyl]-1H-**indole**-2-carboxamide (I; R1 = H) (pKB = 7.33), the 2-aminobenzyl analog I (R1 = NH2) (pKB = 7.19), and N-benzyl-5-[2-(1-benzyl-2,5-dioxoimidazolidin-4-yl)ethyl]-3-[2-(di-Me amino)ethyl]-1H-**indole**-2-carboxamide (II) (pKB = 7.05) have good **5-HT1B**-like affinity and indicate that there may be a hydrophobic binding pocket within the vascular **5-HT1B**-like receptor previously not considered. Compds. including N-benzyl-3-[2-(dimethylamino)ethyl]-5-[2-(2,4-dioxo-1,3-**thiazolidinyl**)ethyl]-1H-**indole**-2-carboxamide (III; R1 = H) (pKB = 7.35) and the di-Me analog III (R1 = Me) (pKB = 7.48) have good vascular **5-HT1B**-like receptor affinity and show that the sulfur atom is well tolerated. Dioxoimidazolinyl compd. IV which includes a methylsulfonyl substituent on the 1-nitrogen of the hydantoin ring system has the highest recorded **5-HT1B**-like affinity for this series (pKB = 7.54) and it is proposed that this functional group can interact with a secondary hydrogen bonding region within the receptor. Compds. I-IV also exhibited good selectivity over the .alpha.1-adrenoceptors. The most selective compd. from this series is III (R1 = Me) which is 66-fold selective over the .alpha.1-adrenoceptors. This finding is consistent with the previous discovery that 5,5-di-Me substitution on the hydantoin group in a related series of compds. afforded superior selectivity for **5-HT1B**-like receptors over .alpha.1-adrenoceptors and other **5-HT** receptors, in particular **5-HT2A** receptors, relative to unsubstituted hydantoin analogs. The selectivity of these compds. for the vascular **5-HT1B**-like receptor is discussed. Structure-activity relationship indicated a significant steric requirement of the **5-HT1B**-like receptor subtype. Potential modes of binding for several of the compds. to a vascular **5-HT1B**-like receptor pharmacophore model are also proposed.
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

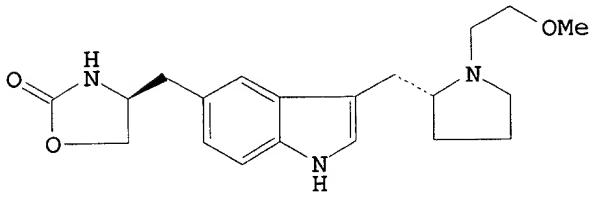
IN **1H-Indole-2-carboxamide, 3-[2-(dimethylamino)ethyl]-5-[2-(5,5-dimethyl-2,4-dioxo-3-thiazolidinyl)ethyl]-N-(phenylmethyl)- (9CI)**

MF C27 H32 N4 O3 S





I



II

AB Three members of claimed **indoles** I [n = 0-2; m = 0-3; W = 7 types of oxo- and/or thioxo-substituted azolidinyl radicals (pyrrolidinyl, imidazolidinyl, oxazolidinyl, **thiazolidinyl**) with optional addnl. substituents; R1 = H, (hydroxy)alkyl, alkenyl, alkynyl, aryl, alkylaryl (sic, e.g., CH2Ph), alkylheteroaryl, certain heterofunctional-terminated alkyl; R2 = H, OR3, NHCOR3; R3 = H, , alkyl, aryl, alkylaryl], potent **5-HT1** agonists (no data), were prepd. for treatment of hypertension, depression, anxiety, obesity, migraine, etc. For example, Mitsunobu coupling of the alc. (R)-1-(N-benzyloxycarbonylpyrrolidin-2-yl)-3-hydroxypropene with 2-bromo-4-(2-oxo-1,3-oxazolidin-4(S)-ylmethyl)-1-(trifluoroacetylamino)benzene at the amide N (100% yield), followed by Pd(OAc)2-catalyzed cyclization to an **indole** (40%), hydrogenolytic deprotection (89%), and N-alkylation with MeOCH2CH2Br (36%), gave title compd. II.

AN 1994:106761 CAPLUS
DN 120:106761
TI Indole derivatives as serotonin receptor (5-HT1) agonists
IN Macor, John E.; Wythes, Martin J.
PA Pfizer Inc., USA
SO PCT Int. Appl., 43 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9320073	A1	19931014	WO 1993-US1967	19930310
	W: AU, BR, CA, CZ, DE, JP, KR, NO, NZ, PL, RU, SK, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9337898	A1	19931108	AU 1993-37898	19930310
	AU 670579	B2	19960725		
	EP 635017	A1	19950125	EP 1993-907216	19930310
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 07504919	T2	19950601	JP 1993-517443	19930310
	JP 2644088	B2	19970825		
	CZ 281763	B6	19970115	CZ 1994-2464	19930310
	PL 172405	B1	19970930	PL 1993-305555	19930310
	RU 2101283	C1	19980110	RU 1994-45897	19930310
	BR 9306201	A	19980623	BR 1993-6201	19930310
	SK 280193	B6	19990910	SK 1994-1206	19930310
	IL 105206	A1	19990411	IL 1993-105206	19930329
	ZA 9302440	A	19941005	ZA 1993-2440	19930405
	HU 64062	A2	19931129	HU 1993-1003	19930406
	CN 1082543	A	19940223	CN 1993-105697	19930406
	CN 1050841	B	20000329		
	US 5747501	A	19980505	US 1994-295798	19940916
	NO 9403762	A	19941006	NO 1994-3762	19941006
	US 6150388	A	20001121	US 1998-59799	19980414
	CN 1225362	A	19990811	CN 1998-116024	19980708
	CN 1083443	B	20020424		
	US 6410739	B1	20020625	US 2000-694808	20000102
	US 6380233	B1	20020430	US 2000-694838	20001023
	US 6387937	B1	20020514	US 2000-694394	20001023
	US 6387941	B1	20020514	US 2000-694809	20001023
	US 6436957	B1	20020820	US 2000-694387	20001023
	US 6465500	B1	20021015	US 2000-694588	20001023
PRAI	US 1992-864737	A2	19920407		
	WO 1993-US1967	A	19930310		
	US 1994-295798	A3	19940916		
	US 1998-59799	A3	19980414		

OS MARPAT 120:106761
GI

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

	AU 2002026911	A5	20020603	AU 2002-26911	20011120
PRAI	US 2000-252197P	P	20001120		
	WO 2001-US43441	W	20011120		

OS MARPAT 136:401784

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 2000:842127 CAPLUS
DN 134:17503
TI Preparation of 5-[4-benzylpiperidinyl(piperazinyl)]-indolecarboxamides as inhibitors of p38 kinase
IN Mavunkel, Babu J.; Chakravarty, Sarvajit; Perumattam, John J.; Dugar, Sundeep; Lu, Qing; Liang, Xi
PA Scios Inc., USA
SO PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000071535	A1	20001130	WO 2000-US14003	20000519
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1178983	A1	20020213	EP 2000-939322	20000519
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011274	A	20020226	BR 2000-11274	20000519
NO 2001005655	A	20020118	NO 2001-5655	20011120
PRAI US 1999-316761	A	19990521		
US 1999-154594P	P	19990917		
US 2000-202608P	P	20000509		
WO 2000-US14003	W	20000519		

OS MARPAT 134:17503
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1992:651348 CAPLUS
DN 117:251348
TI Preparation of [(aminoalkyl)indolyl]thiazoles as 5-HT1 receptor agonists
IN Nowakowski, Jolanta Teresa
PA Pfizer Inc., USA
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9213856	A1	19920820	WO 1992-US556	19920203

W: AU, CA, CS, FI, HU, JP, KR, NO, RU, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE

AU 9212637	A1	19920907	AU 1992-12637	19920203
AU 655456	B2	19941222		
EP 571471	A1	19931201	EP 1992-904837	19920203
EP 571471	B1	19960306		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

JP 06500122	T2	19940106	JP 1992-505422	19920203
JP 07121942	B4	19951225		
HU 65766	A2	19940728	HU 1993-2328	19920203
AT 135005	E	19960315	AT 1992-904837	19920203
ES 2084347	T3	19960501	ES 1992-904837	19920203
ZA 9200969	A	19930811	ZA 1992-969	19920211
US 5409941	A	19950425	US 1993-94208	19930806
NO 9302859	A	19930811	NO 1993-2859	19930811
PRAI US 1991-654712		19910212		
WO 1992-US556		19920203		

OS MARPAT 117:251348

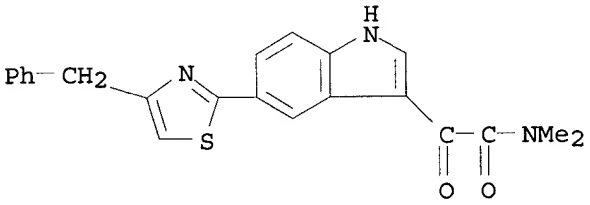
=> d hitstr 4

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

IT **144340-52-3P 144340-53-4P 144340-58-9P**
144340-59-0P 144340-60-3P 144340-61-4P
144340-71-6P 144340-72-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for 5-HT1 receptor agonists)

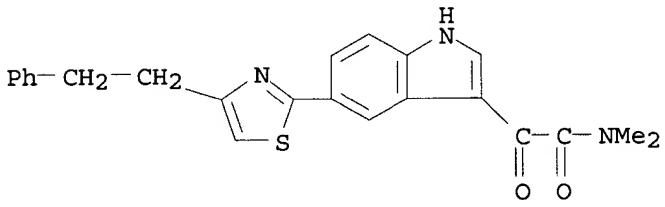
RN 144340-52-3 CAPLUS

CN 1H-Indole-3-acetamide, N,N-dimethyl-.alpha.-oxo-5-[4-(phenylmethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



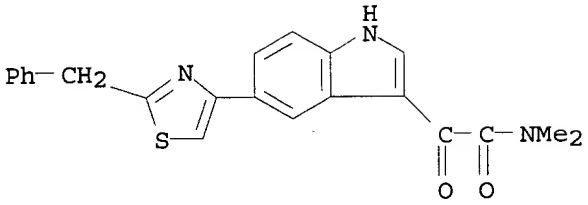
RN 144340-53-4 CAPLUS

CN 1H-Indole-3-acetamide, N,N-dimethyl-.alpha.-oxo-5-[4-(2-phenylethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)

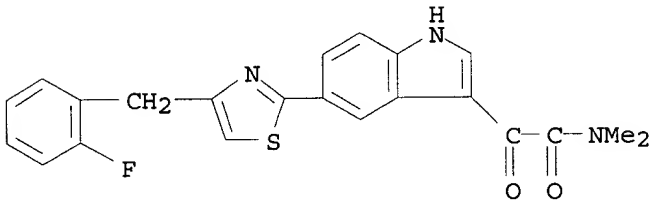


RN 144340-58-9 CAPLUS

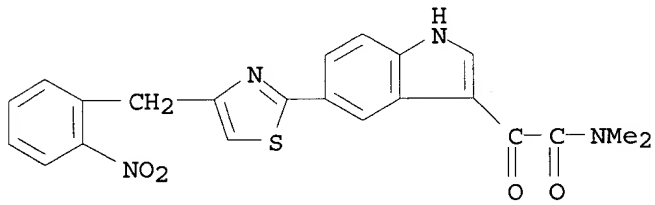
CN 1H-Indole-3-acetamide, N,N-dimethyl-.alpha.-oxo-5-[2-(phenylmethyl)-4-thiazolyl]- (9CI) (CA INDEX NAME)



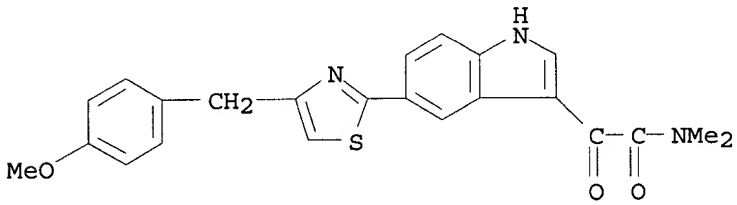
RN 144340-59-0 CAPLUS
CN 1H-Indole-3-acetamide, 5-[4-[(2-fluorophenyl)methyl]-2-thiazolyl]-N,N-dimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)



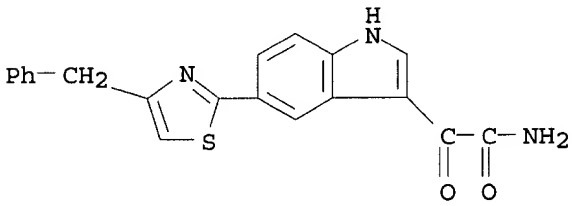
RN 144340-60-3 CAPLUS
CN 1H-Indole-3-acetamide, N,N-dimethyl-5-[4-[(2-nitrophenyl)methyl]-2-thiazolyl]-.alpha.-oxo- (9CI) (CA INDEX NAME)

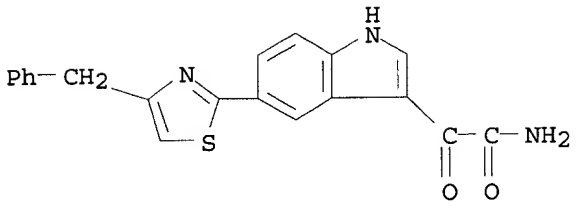


RN 144340-61-4 CAPLUS
CN 1H-Indole-3-acetamide, 5-[4-[(4-methoxyphenyl)methyl]-2-thiazolyl]-N,N-dimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)

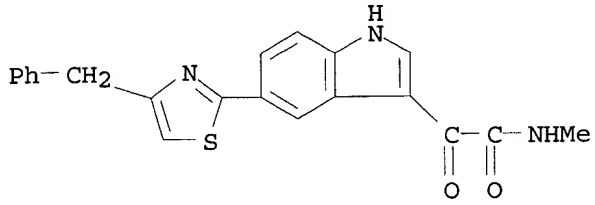


RN 144340-71-6 CAPLUS
CN 1H-Indole-3-acetamide, .alpha.-oxo-5-[4-(phenylmethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)





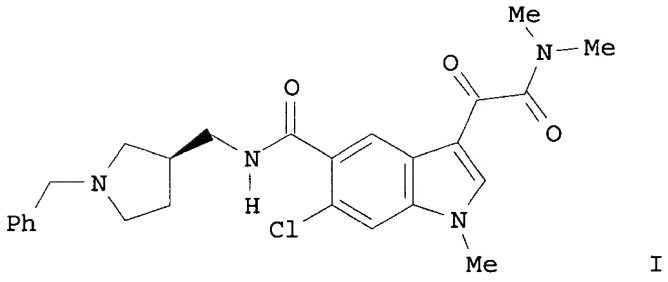
RN 144340-72-7 CAPLUS
CN 1H-Indole-3-acetamide, N-methyl-.alpha.-oxo-5-[4-(phenylmethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



AN 2002:428896 CAPLUS
DN 137:6088
TI Preparation of indolecarboxamides as p38-.alpha. inhibitors
IN Dugar, Sundeep; Mavunkel, Babu J.; Luedtke, Gregory R.; Mcenroe, Glen
PA Scios Inc., USA
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044168	A2	20020606	WO 2001-US43439	20011120
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002037657	A5	20020611	AU 2002-37657	20011120
PRAI	US 2000-252163P	P	20001120		
	WO 2001-US43439	W	20011120		

OS MARPAT 137:6088
GI

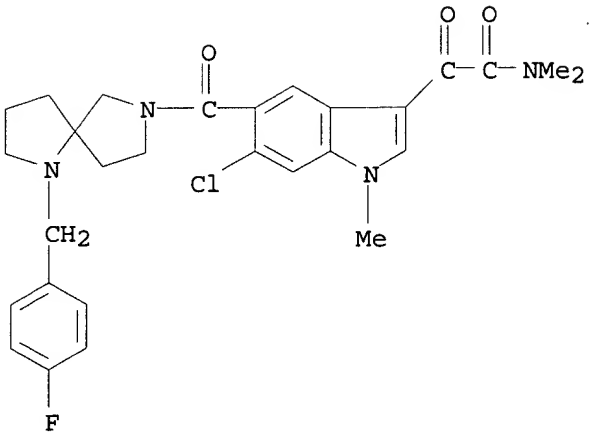


I

AB Title compds. were prepd. as p38-.alpha. inhibitors (no data). Thus, 6-chloro-1-methyl-1H-indole-5-carboxylic acid was amidated by (R)-3-aminomethyl-1-benzylpyrrolidine followed by acylation and amidation to give title compd. I.

IT **433286-59-0P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of indolecarboxamides as p38-.alpha. inhibitors)

RN 433286-59-0 CAPLUS
CN 1H-Indole-3-acetamide, 6-chloro-5-[[1-[(4-fluorophenyl)methyl]-1,7-diazaspiro[4.4]non-7-yl]carbonyl]-N,N,1-trimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)


O
O
C
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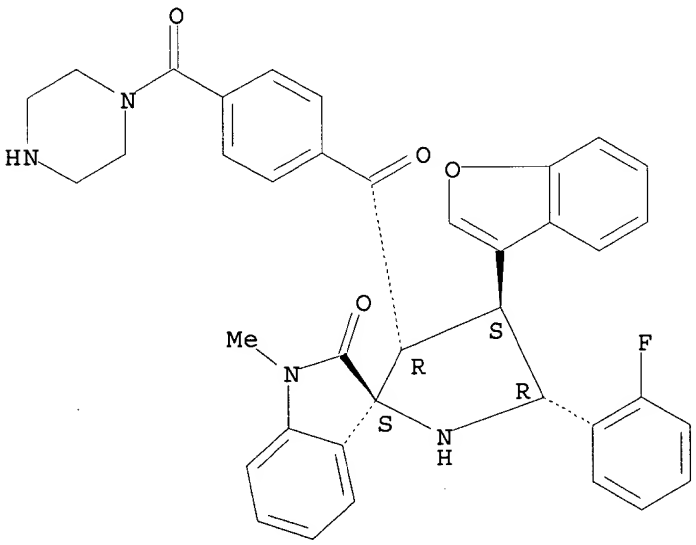
C
N
Cl
N
Me
CH2
F

AN 2002:324773 CAPLUS
DN 137:294931
TI 2-(3-Aminopropyl)-4-pentenoic acid as a bio-compatible/cleavable linker for solid-phase organic synthesis
AU Guo, Mao-Jun; Varady, Laszlo
CS Applications Development, ArQule Inc., Woburn, MA, 01801, USA
SO Tetrahedron Letters (2002), 43(20), 3677-3680
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 137:294931
AB 2-(3-Aminopropyl)-4-pentenoic acid lithium salt was prepd. and used as a biocompatible, cleavable linker in solid-phase org. synthesis. The products were released from solid support through cycloelimination.
IT **467451-29-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(2-(3-aminopropyl)-4-pentenoic acid as a biocompatible cleavable linker for solid-phase org. synthesis)
RN 467451-29-2 CAPLUS
CN Piperazine, 1-[4-[[(3'R,2'S,4'S,5'R)-4'-(3-benzofuranyl)-5'-(2-fluorophenyl)-1,2-dihydro-1-methyl-2-oxospiro[3H-indole-3,2'-pyrrolidin]-3'-yl]carbonyl]benzoyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

AN 1996:462227 CAPLUS
DN 125:115150
TI Cyclic hexapeptides having antibiotic activity
IN Ohki, Hidenori; Tomishima, Masaki; Yamada, Akira; Takasugi, Hisashi
PA Fujisawa Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 273 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9611210	A1	19960418	WO 1995-JP1983	19950929
	W: AU, CA, CN, FI, HU, JP, KR, MX, NO, RU, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2202058	AA	19960418	CA 1995-2202058	19950929
	AU 9535780	A1	19960502	AU 1995-35780	19950929
	AU 696949	B2	19980924		
	EP 788511	A1	19970813	EP 1995-932935	19950929
	EP 788511	B1	20021211		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CN 1168675	A	19971224	CN 1995-196643	19950929
	JP 10507174	T2	19980714	JP 1995-512472	19950929
	JP 2897427	B2	19990531		
	HU 77736	A2	19980728	HU 1998-338	19950929
	JP 10324695	A2	19981208	JP 1998-136756	19950929
	RU 2165423	C2	20010420	RU 1997-107338	19950929
	AT 229541	E	20021215	AT 1995-932935	19950929
	IL 115484	A1	20000716	IL 1995-115484	19951002
	ZA 9508458	A	19960507	ZA 1995-8458	19951006
	BR 9504791	A	19961022	BR 1995-4791	19951006
	FI 9701397	A	19970527	FI 1997-1397	19970404
	NO 9701544	A	19970604	NO 1997-1544	19970404
	US 6107458	A	20000822	US 1997-809723	19970521
	US 6265536	B1	20010724	US 1999-248267	19990211
PRAI	GB 1994-20425	A	19941007		
	GB 1995-8745	A	19950428		
	JP 1996-512472	A3	19950929		
	WO 1995-JP1983	W	19950929		
	US 1997-809723	A3	19970521		

OS MARPAT 125:115150
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to new cyclic polypeptide derivs. I [R1 = variety of substituted acyl groups] and their pharmaceutically acceptable salts. The compds. have antimicrobial activities (esp., antifungal activities) and inhibitory activity on .beta.-1,3-glucan synthase (no data), and are useful for prophylactic and/or therapeutic treatment of infectious diseases including Pneumocystis carinii infection (e.g., P. carinii pneumonia). Examples include 124 compds. I, plus 346 precursor prepns. For instance, reaction of the precursor I.Na [R1 = H] with 1-[6-[(octyloxy)methyl]picolinoyl]benzotriazole 3-oxide in DMF in the presence of DMAP gave title compd. I [R1 = Q1]. In a test against Candida albicans FP-633 in vitro, I [R1 = Q2] had MIC of 0.2 .mu.g/mL.

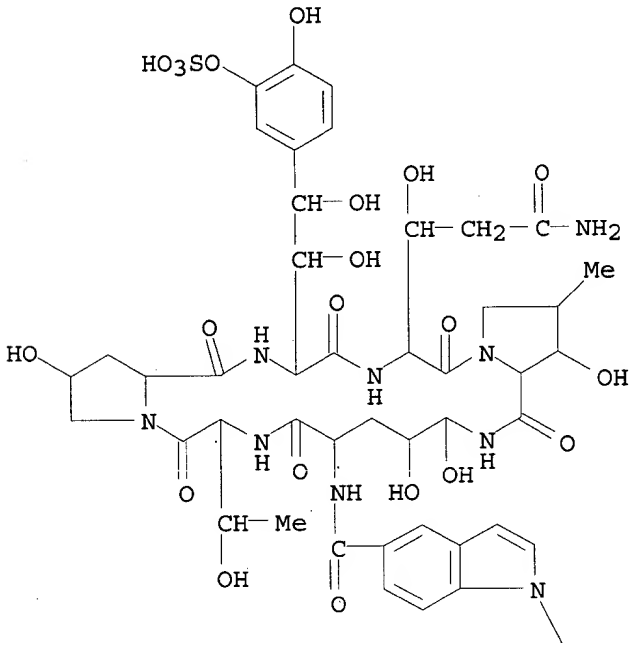
IT **179166-59-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cyclic hexapeptides active against fungi and Pneumocystis carinii)

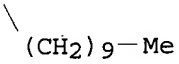
RN 179166-59-7 CAPLUS

CN Proline, N2-[(1-decyl-1H-indol-5-yl)carbonyl]-4,5-dihydroxyornithylthreonyl-4-hydroxyprolyl-4-hydroxy-4-[4-hydroxy-3-(sulfooxy)phenyl]threonyl-3-hydroxyglutaminyl-3-hydroxy-4-methyl-, cyclic (6.fwdarw.1)-peptide, monosodium salt (9CI) (CA INDEX NAME)

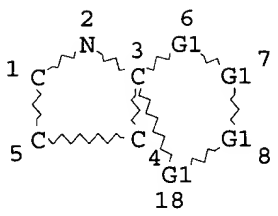
PAGE 1-A

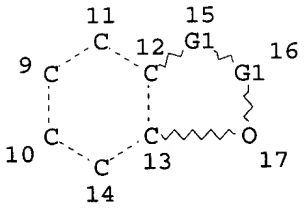


PAGE 2-A



● Na



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VAR G1=C/N
ENTER (DIS), GRA, NOD, BON OR ?:end
L38  STRUCTURE CREATED

=> s l38
SAMPLE SEARCH INITIATED 10:37:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  10370 TO ITERATE

  9.6% PROCESSED    1000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       201304 TO   213496
PROJECTED ANSWERS:               0 TO        0

L39           0 SEA SSS SAM L38

=> s l38 ful
FULL SEARCH INITIATED 10:37:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 208199 TO ITERATE

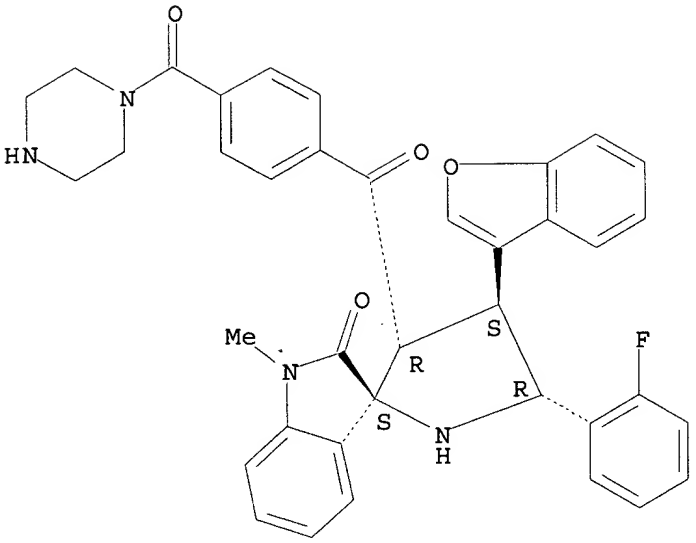
100.0% PROCESSED  208199 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.02

L40           1 SEA SSS FUL L38

=> d

L40  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   467451-29-2  REGISTRY
CN   Piperazine, 1-[4-[[(3'R,2'S,4'S,5'R)-4'-(3-benzofuranyl)-5'-(2-
     fluorophenyl)-1,2-dihydro-1-methyl-2-oxospiro[3H-indole-3,2'-pyrrolidin]-
     3'-yl]carbonyl]benzoyl]-, rel- (9CI)  (CA INDEX NAME)
FS   STEREOSEARCH
MF   C38 H33 F N4 O4
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, TOXCENTER

Relative stereochemistry.
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1044.73	1200.31

FILE 'CAPLUS' ENTERED AT 10:37:48 ON 01 APR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 1 Apr 2003 VOL 138 ISS 14
FILE LAST UPDATED: 31 Mar 2003 (20030331/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

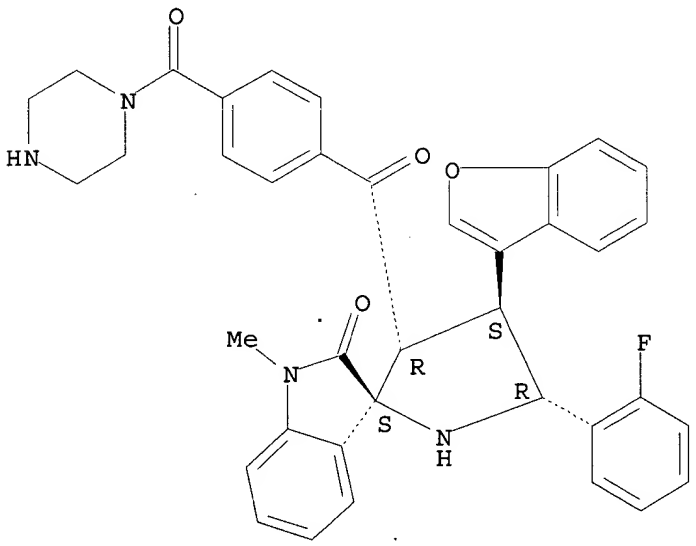
=> s l40
L41 1 L40

=> d bib abs hitstr

L41 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN 2002:324773 CAPLUS

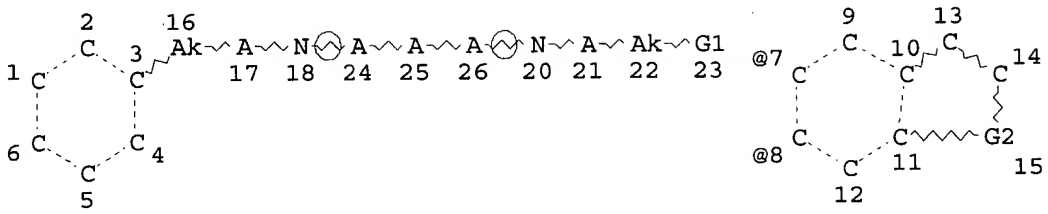
DN 137:294931
TI 2-(3-Aminopropyl)-4-pentenoic acid as a bio-compatible/cleavable linker for solid-phase organic synthesis
AU Guo, Mao-Jun; Varady, Laszlo
CS Applications Development, ArQule Inc., Woburn, MA, 01801, USA
SO Tetrahedron Letters (2002), 43(20), 3677-3680
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 137:294931
AB 2-(3-Aminopropyl)-4-pentenoic acid lithium salt was prepd. and used as a biocompatible, cleavable linker in solid-phase org. synthesis. The products were released from solid support through cycloelimination.
IT **467451-29-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(2-(3-aminopropyl)-4-pentenoic acid as a biocompatible cleavable linker for solid-phase org. synthesis)
RN 467451-29-2 CAPLUS
CN Piperazine, 1-[4-[[(3'R,2'S,4'S,5'R)-4'-(3-benzofuranyl)-5'-(2-fluorophenyl)-1,2-dihydro-1-methyl-2-oxospiro[3H-indole-3,2'-pyrrolidin]-3'-yl]carbonyl]benzoyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l8
L8 HAS NO ANSWERS
L8 STR



VAR G1=7/8
VAR G2=O/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 8
NUMBER OF NODES IS 25

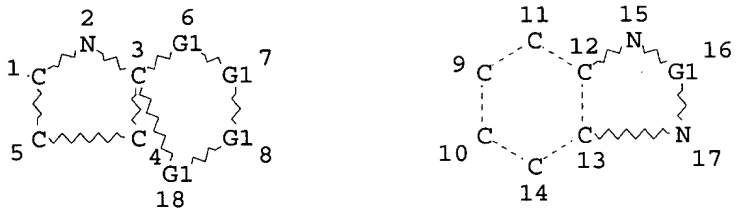
STEREO ATTRIBUTES: NONE

=> s l8 ful
FULL SEARCH INITIATED 10:22:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 349967 TO ITERATE

100.0% PROCESSED 349967 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.08

L12 0 SEA SSS FUL L8

=> d l33
L33 HAS NO ANSWERS
L33 STR



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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 10
NUMBER OF NODES IS 18

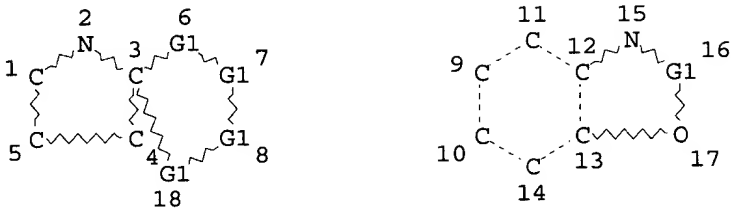
STEREO ATTRIBUTES: NONE

=> s l33 ful
FULL SEARCH INITIATED 10:36:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 88789 TO ITERATE

100.0% PROCESSED 88789 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.02

L35 0 SEA SSS FUL L33

L36 HAS NO ANSWERS
L36 STR



VAR G1=C/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 10
NUMBER OF NODES IS 18

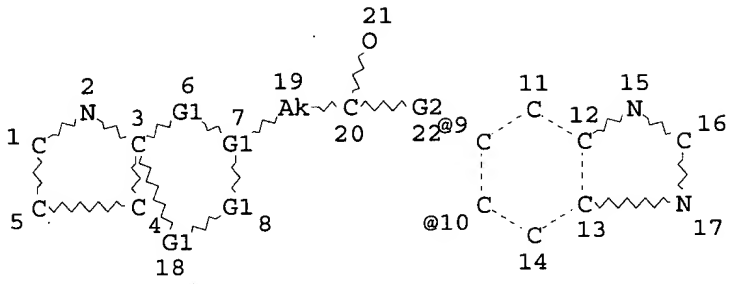
STEREO ATTRIBUTES: NONE

=> s l36 ful
FULL SEARCH INITIATED 10:36:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13477 TO ITERATE

100.0% PROCESSED 13477 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L37 0 SEA SSS FUL L36

L19 HAS NO ANSWERS
L19 STR



VAR G1=C/N
VAR G2=9/10
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 10
NUMBER OF NODES IS 22

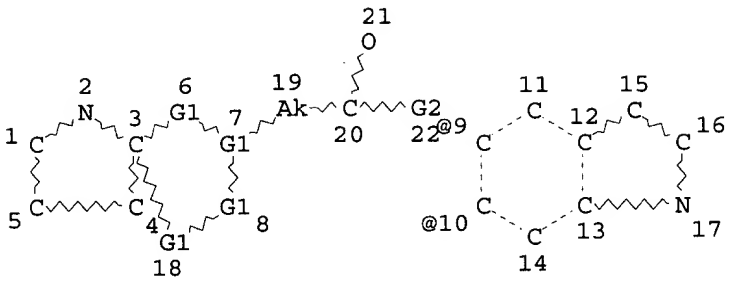
STEREO ATTRIBUTES: NONE

=> s l19 ful
FULL SEARCH INITIATED 10:31:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 37479 TO ITERATE

100.0% PROCESSED 37479 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.03

L21 0 SEA SSS FUL L19

L17 HAS NO ANSWERS
L17 STR



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VAR G2=9/10
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 10
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

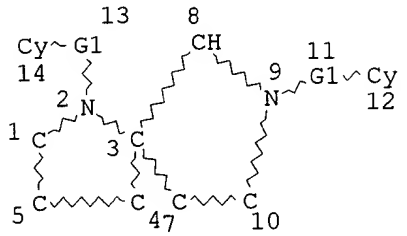
=> s l17 ful
FULL SEARCH INITIATED 10:31:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 501865 TO ITERATE

79.7% PROCESSED 400000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.17

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 501865 TO 501865
PROJECTED ANSWERS: 0 TO 0

L22 0 SEA SSS FUL L17

=> d l1
L1 HAS NO ANSWERS
L1 STR



REP G1=(1-10) A
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GGCAT IS UNS AT 12
GGCAT IS UNS AT 14
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 3
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

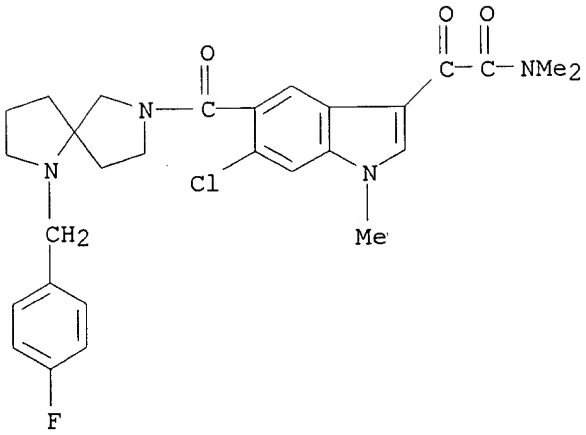
=> s l1 ful
FULL SEARCH INITIATED 10:58:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2225 TO ITERATE

100.0% PROCESSED 2225 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 433286-59-0 REGISTRY
CN 1H-Indole-3-acetamide, 6-chloro-5-[[1-[(4-fluorophenyl)methyl]-1,7-diazaspiro[4.4]non-7-yl]carbonyl]-N,N,1-trimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H30 Cl F N4 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



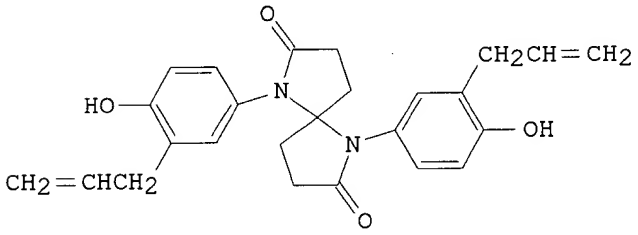
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

AN 1990:236007 CAPLUS
DN 112:236007
TI Alkenylhydroxyphenyl derivatives of 1,6-diazaspiro[4.4]dilactams
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4886863	A	19891212	US 1989-314520	19890223 <--
	US 4968811	A	19901106	US 1989-356157	19890524 <--
	EP 384518	A1	19900829	EP 1990-200323	19900212 <--
	EP 384518	B1	19940824		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	CA 2010537	AA	19900823	CA 1990-2010537	19900221 <--
	JP 02275881	A2	19901109	JP 1990-38566	19900221 <--
PRAI	US 1989-314512		19890223		
	US 1989-314518		19890223		
	US 1989-314519		19890223		
	US 1989-314520		19890223		

OS CASREACT 112:236007; MARPAT 112:236007
GI



II

AB The title compds., useful in the prodn. of cured resins, are prepd. Heating 202.8 g **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro[4.4]nonane**-2,7-dione (I), 91.22 g K2CO3, 200 mL PhMe, and **1** L AcNMe2 at 150-160.degree. with distn. of H2O, cooling to 90.degree., adding 200.2 g allyl bromide in 200 mL AcNMe2 over 80 min, and heating 12 h at 90.degree. gave I diallyl ether, heating of which in N-methylpyrrolidone at 200-205.degree. for 12 h gave >90% dilactam II. Heating a **1**:**1** mixt. of II and N,N'-(methylene-di-p-phenylene)bismaleimide gave a tough, crosslinked resin.

L8 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:199311 CAPLUS
DN 112:199311
TI Preparation annd polymerization of unsaturated spirodilactams
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 4885351	A	19891205	US 1989-314512	19890223	<--
	US 4940801	A	19900710	US 1989-356158	19890524	<--
	EP 384518	A1	19900829	EP 1990-200323	19900212	<--
	EP 384518	B1	19940824			
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
	CA 2010537	AA	19900823	CA 1990-2010537	19900221	<--
	JP 02275881	A2	19901109	JP 1990-38566	19900221	<--
PRAI	US 1989-314512		19890223			
	US 1989-314518		19890223			
	US 1989-314519		19890223			
	US 1989-314520		19890223			

OS MARPAT 112:199311

AB **1**,6-Diaza[4.4]spirodilactams bearing unsatd. groups on each spiro ring N atom give cured products when heated with curing agents at >150.degree.. Heating 150 g 4-oxoheptanedioic acid, 100 g allylamine, 200 mL AcNMe2, and 50 mL PhMe at 140-160.degree. with azeotropic distn. of H2O gave 200.8 g N, N'-diallyl-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione (I). Heating 50 parts I and 50 parts N,N'-(methylenedi-p-phenylene)bismaleimide at 200.degree. for 4 h and 220.degree. for 2 h gave a crosslinked product with glass temp. 237.degree..

=> d bib abs 1-30

L8 ANSWER 1 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1993:103587 CAPLUS
DN 118:103587
TI Sulfamoyl-substituted spirodilactams
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 7 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5149823	A	19920922	US 1990-564528	19900809 <--
PRAI US 1990-564528		19900809		

OS MARPAT 118:103587
AB Sulfamoyl(alkyl)aryl-substituted **1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-diones are prepd. by reaction, e.g., sulfanilamide and **1**,6-dioxaspiro[4.4]nonane-2,**7**-dione at 2:**1** molar ratio in N-methyl-2-pyrrolidinone at 170-180.degree. to give the corresponding spirodilactam (I). Thus, I was polymd. with terephthalic acid in diglyme in presence of Sn oxide to give the condensation polymer. Alternatively bisphenol A diglycidyl ether and I were melted and then heated to 200-220.degree. to give a hard cured resin.

L8 ANSWER 2 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:427384 CAPLUS
DN 117:27384
TI Spirodilactam derivatives
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5093499	A	19920303	US 1990-506394	19900409 <--
PRAI US 1990-506394		19900409		

OS MARPAT 117:27384
AB The title derivs. with good hydrolytic and oxidative stability and useful as intermediates for polymers are prepd. from a dioxaspirodilactone, e.g. **1**,6-dioxaspiro[4.4]nonane-2,**7**-dione (I) or a suitable ketodicarboxylic acid, e.g. 4-oxoheptanedioic acid, and amine compds. Thus, stirring 0.32 mol phenoxyaniline with 0.16 mol I in 50 mL m-cresol at 160-170.degree. for 24 h gave **1**,6-bis(4-phenoxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione having m.p. of 210-212.degree..

L8 ANSWER 3 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1992:408732 CAPLUS
DN 117:8732
TI Cyclic polycarbonate oligomer containing spiro dilactam moieties
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 8 pp.
CODEN: USXXAM

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5095088	A	19920310	US 1990-566195	19900813 <--
PRAI	US 1990-566195		19900813		

AB The title oligomers, useful as intermediates for prepn. of linear, solvent-resistant polymers, are prepd. from dihydroxyaryl spirodilactam compds., carbonate sources and, optionally, dihydroxyphenyl compds. Thus, an oligomer was prepd. from bisphenol A, bisphenol A dichloroformate, and **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione in CHCl3 in the presence of NaOH and Et3N.

L8 ANSWER 4 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:584203 CAPLUS
DN 115:184203
TI Polycarbonates having spirodilactam moieties
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

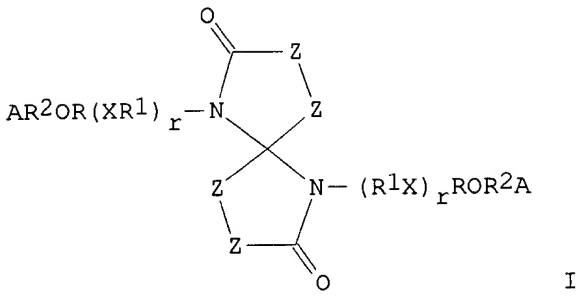
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5030707	A	19910709	US 1989-411775	19890925 <--
PRAI	US 1989-411775		19890925		

AB The polycarbonates contain alternating **1**,6-diaza[4.4]spirodilactam groups and bisphenol residues, and have good hydrolytic stability. A soln. of 3.52 g bisphenol A bis(chloroformate) in 75 mL CHCl3 was added over 30 min to a stirred soln. of 3.38 g **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione and **1**.0 g NaOH in 75 mL H2O, mixed with 0.2 mL Et3N, and stirred 12 h at 25.degree., giving a white polymer with glass temp. 143.degree..

L8 ANSWER 5 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:248046 CAPLUS
DN 114:248046
TI Arylcyclobutene ethers for thermosetting resins
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4968810	A	19901106	US 1989-324872	19890317 <--
	US 5059674	A	19911022	US 1990-506037	19900409 <--
PRAI	US 1989-324872		19890317		

OS MARPAT 114:248046
GI



I

AB Hydroxyaryl-substituted spirodilactams I [A = C.ltoreq.30 arylenecyclobutene ring system having .ltoreq.4 arom. rings; R = C.ltoreq.15 arom. divalent ring system; R1 = R; R2 = C.ltoreq.10 alkylene; X = direct bond, C.ltoreq.8 alkylene, oxy, thio, sulfonyl, carbonyl, dioxyphenyl, 2,2-di(oxyphenyl)propane, di(oxyphenyl) sulfone, dioxydiphenylene; Z = CZ12; Z1 = H, lower alkyl, halogen, Ph; r = 0, **1**] are prepd., which, when heated, produce resins having relatively high glass transition temp. and good phys. properties. Thus, 16.92 g of **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione, **7**.6 g K2CO3, 50 mL toluene, and 200 mL AcNMe2 were heated to 150-160.degree., cooled to 80-90.degree., 16.77 g chloromethylbenzocyclobutene in 50 mL AcNMe2 added over 30 min, the mixt. heated to 150.degree. for 12 h, producing **1**,6-bis[4-(4-benzocyclobutenemethyloxy)phenyl]-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione, which was heated at 200.degree. for 2 h and at 220.degree. for 4 h, producing a polymer having glass-transition temp. 267.degree..

L8 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:248037 CAPLUS
DN 114:248037
TI Preparation of polyarylate polymers of hydroxyaryl-substituted 1,6-diaza (4.4) spirodilactams
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 8 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4992526	A	19910212	US 1989-454245	19891221 <--

PRAI US 1989-454245 19891221

AB The high-mol.-wt. polyesters are prepd. by interfacial polymn. of hydroxylaryl-substituted **1**,6-diaza[4,4]spirolactam compds. and arom. diacid halides, optionally with di(hydroxyphenyl) compds. in mixts. of aq. caustic solns., water-immisible org. solvents, and deemulsifying agents. Thus, stirring **1**,6-di(hydroxyphenyl)-**1**,6-**diazaspiro**[**4,4**]**nonane**-2,**7**-dione 8.11, bisphenol A 8.22, (PhCH2)N+Et3Cl- 0.4, NaHSO3 0.04, and NaOH 5.28 g in a mixt. of iso-PrOH 50, CHCl3 420, and H2O 270 mL at <10.degree. and 1000 rpm under N, adding a soln. of 12.18 g isophthaloyl chloride in 70 mL CHCl3 over 30 min, and stirring for 12 h gave a polymer having glass-transition temp. 233.degree., and inherent viscosity 0.81 dL/g.

L8 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:248032 CAPLUS

DN 114:248032
TI Thermoplastic polyarylates with high glass transition temperature
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 7 pp. Cont.-in-part of U.S. 4,910,285.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4977235	A	19901211	US 1989-454727	19891221 <--
	US 4910285	A	19900320	US 1989-314515	19890223 <--
PRAI	US 1989-314515		19890223		

AB The melt-processable polyarylates useful for shaped articles are derived from an arom. diacid halide, a hydroxyaryl-substituted spirodilactam compd. and, optionally a bisphenol compd. Stirring under N at <10.degree. a mixt. of **1**,6-di(hydroxyphenyl)-**1**,6-**diazaspiro[4.4]nonane**-2,**7**-dione 8.11, bisphenol A 8.22, Et3PhCH2N+Cl- 0.4, NaHSO3 0.04, and NaOH 5.28 g in H2O 270, CHCl3 420, and iso-PrOH 50 mL, adding 12.18 g isophthaloyl chloride in 70 mL CHCl33 over 30 min, and stirring at room temp. for 12 h gave a polymer with glass temp. 233.degree. and inherent viscosity 0.8 dL/g.

L8 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:229666 CAPLUS
DN 114:229666
TI Aromatic polyethers containing spirodilactam groups and arylene groups bearing electron-withdrawing substituents
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 314,516, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4968769	A	19901106	US 1989-428563	19891030 <--
PRAI	US 1989-314516		19890223		

AB The title thermoplastic polymers have high glass temp. and good dimensional stability, and are useful as containers for food and drink and in elec. applications. A mixt. of **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro[4.4]nonane**-2,**7**-dione 16.9, 2,6-dichlorobenzonitrile 8.6, anhyd. K2CO3 **7**.0 g, 50 mL PhMe, and 100 mL N-methylpyrrolidone was heated to 160.degree. with azeotropic distn. of H2O, mixed with 0.135 g p-chlorobenzonitrile when the mixt. became viscous, then purified, giving 21.0 g white polymer with glass temp. 267.degree., tensile strength 14.600 psi, elongation **7**%, and modulus 405,000 psi.

L8 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:164041 CAPLUS
DN 114:164041
TI Preparation of epoxyalkoxy-containing spirodilactams as monomers
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 172,054, abandoned.
CODEN: USXXAM
DT Patent
LA English

FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4895942	A	19900123	US 1988-245434	19880916 <--
	CA 1335596	A1	19950516	CA 1989-608975	19890822 <--
	JP 02160787	A2	19900620	JP 1989-237400	19890914 <--
	EP 359341	A2	19900321	EP 1989-202341	19890915 <--
	EP 359341	A3	19910925		
	EP 359341	B1	19940216		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
PRAI	US 1988-172054		19880323		
	US 1988-245433		19880916		
	US 1988-245434		19880916		
	US 1988-245618		19880916		
	US 1988-245619		19880916		
	US 1988-249934		19880927		
	US 1989-324870		19890317		

OS MARPAT 114:164041

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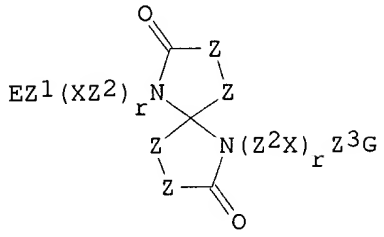

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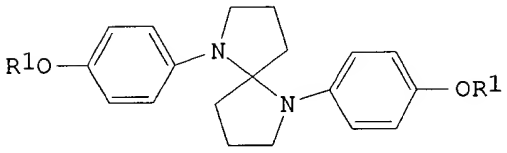


II

AB The title compds. [I; Z = CR2; R = H, alkyl; ZZ completing a 5- to **7**-membered ring contg. .ltoreq.2 N, O, or S and the balance .ltoreq.15 C atoms, 2 of which connect a carbonyl C atom with the spiro C atom; Z1 = C.ltoreq.15 arom. group of .ltoreq.2 arom. rings; Z2, Z3 = Z1, C.ltoreq.10 aliph. group; r = 0, **1**; X = a direct balance bond, C.ltoreq.8 alkylene, O, S, SO2, CO, dioxyphenylene, 2,2-di(oxyphenyl)propane, dioxydiphenylene; E = C.ltoreq.8 [**1**-(2,3-epoxy)alkoxy]; G = H, E; provided that when G = E, Z3 = Z] were prepd. Thus, a mixt. of 0.03 mol **1**,6-**diazaspiro**[**4.4**]**nonane-1**,**7**-dione (II; R1 = H) and 0.05 g EtPh3P+Br- in 150 mL epichlorohydrin was stirred 4 h at 110-120.degree. to give 95% II (R1 = glycidyl).

L8 ANSWER 10 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:101726 CAPLUS

DN 114:101726

TI Preparation of spirodilactam derivatives as monomers, ultraviolet stabilizers, and plasticizers

IN Wang, Pen Chung

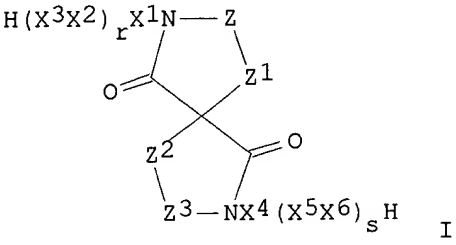
PA Shell Oil Co., USA

SO U.S., 3 pp.

CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4963691	A	19901016	US 1989-392312	19890811 <--
PRAI US 1989-392312		19890811		

OS MARPAT 114:101726
GI



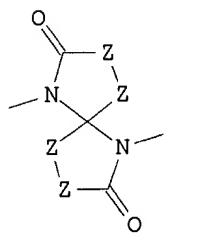
I

AB The title compds. (I; Z - Z3 = CR1R2; R1, R2 = H, alkyl, halo, Ph; X5, X6 = phenylene; X2, X5 = bond, alkylene, O, S, SO2, dioxyphenylene, etc.; r, s = 0, **1**), useful as monomers, UV stabilizers, and plasticizers, were prepd. Thus, a mixt. of 3,8-dibutyl-2,**7**-dioxospiro[4.4]nonane-**1**,6-dione, aniline, and aniline hydrochloride was refluxed 6 h to give 86% 3,8-dibutyl-2,**7**-diphenyl-2,**7**-**diazaspiro**[**4.4**]**nonane-1**,6-dione.

L8 ANSWER 11 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:82794 CAPLUS
DN 114:82794
TI Spirodilactam group-containing polycarbonate-polyesters
IN Wang, Pen Chung
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4968768	A	19901106	US 1989-411774	19890925 <--
PRAI US 1989-411774		19890925		

GI



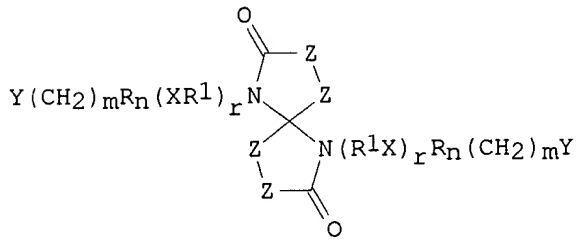
I

AB The title heat-stable polymers contain groups I [Z = C(Z1)2; Z1 = H, lower alkyl, lower halo, Ph, or two Z groups give a 5-**7** atom ring contg. up to two N, O or S atoms). A soln. of isophthaloyl chloride **1.1**, and 2,2-di(4-chlorocarbonyloxyphenyl)propane **1**.76 g in 95 mL CHCl3 was added over 30 min to a stirred mixt. of **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione 3-38 g, NaOH **1**.0 g, and H2O 75 mL, stirred 5 min, mixed with 0.2 mL NEt3, and reacted 12 h at 25.degree., giving a polymer with limiting viscosity (room temp., in CHCl3) 0.31 dL/g.

L8 ANSWER 12 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:81805 CAPLUS
DN 114:81805
TI Preparation of 1,6-diaza[4.4]spirodilactams for thermosetting plastics
IN Wang, Pen Chung
PA Shell Internationale Research Maatschappij B. V., Neth.
SO Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 384518	A1	19900829	EP 1990-200323	19900212 <--
	EP 384518	B1	19940824		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	US 4885351	A	19891205	US 1989-314512	19890223 <--
	US 4886863	A	19891212	US 1989-314520	19890223 <--
	US 4927908	A	19900522	US 1989-314519	19890223 <--
	US 4981976	A	19910101	US 1989-314518	19890223 <--
	US 5082923	A	19920121	US 1990-524528	19900517 <--
PRAI	US 1989-314512		19890223		
	US 1989-314518		19890223		
	US 1989-314519		19890223		
	US 1989-314520		19890223		

OS MARPAT 114:81805
GI



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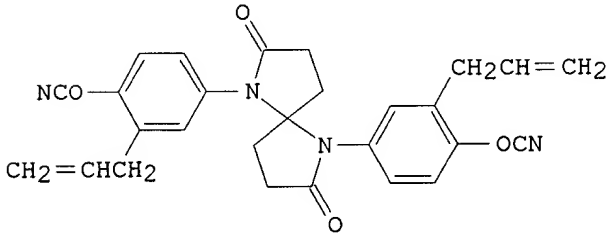

II

AB The title compds. I [R = phenylene, hydroxyphenylene, cyanophenylene; R1 = R, C<10 alkyl, X = bond, C<5 alkylene, O, S, SO2, CO, etc.; Y = H2C:CH, HC.tplbond.C, Z = (Z4)2C:, Z1 = H, alkyl, halo, Ph, etc.; m, n, r = 0, 1] were prepd. as monomers for thermosettting plastics. **1**,6-Di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione, K2CO3, MePh and MeCONMe2 were heated to 150-160.degree., H2O was removed by azeotropic distn. with MePh, the temp. lowered to 80-90.degree., H2C:CHCH2Br in MeCONMe2 was added over 80 min and the reaction continued for 12 h at 90.degree.. The resulting diallylether analog underwent Claisen rearrangement by heating for 12 h at 200-205.degree. in N-methyl-2-pyrrolidone followed by cyanation by BrCN at 0.degree. in the presence of Et3N to give II. A mixt. of equal parts of II and di(4-maleimidodiphenyl)methane was melted at 130-150.degree. and cured at 200.degree. for 2 h and at 220.degree. for 6 to give a hard, insol. crosslinked resin having a glass transition temp. >300.degree..

L8 ANSWER 13 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:63443 CAPLUS
DN 114:63443
TI **1**,6-**Diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione derivatives for heat-resistant polyhydroxyethers
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 5 pp. Cont.-in-part of U.S. Ser. No. 175,023, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4888408	A	19891219	US 1988-249934	19880927 <--
	CA 1335596	A1	19950516	CA 1989-608975	19890822 <--
	JP 02160787	A2	19900620	JP 1989-237400	19890914 <--
	EP 359341	A2	19900321	EP 1989-202341	19890915 <--
	EP 359341	A3	19910925		
	EP 359341	B1	19940216		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
PRAI	US 1988-175023		19880330		
	US 1988-245433		19880916		
	US 1988-245434		19880916		
	US 1988-245618		19880916		
	US 1988-245619		19880916		
	US 1988-249934		19880927		
	US 1989-324870		19890317		

AB The title polyhydroxyethers, contg. (A) **1**,6-diaza[4.4]spirodilactam having oxyaryl-contg. substituents on each N and (B) 2-hydroxy-**1**,3-propylene groups, have relatively high glass transition temp. Refluxing a **1**:**1** (mol) mixt. of **1**,6-di(4-glycidyloxyphenyl)-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione and **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione in EtPPh3.Br and heating for 6 h at 200.degree. gave a polyether with glass temp. 167.degree. C.

L8 ANSWER 14 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:62952 CAPLUS
DN 114:62952
TI Preparation of spirolactams
IN Wang, Pen C.
PA Shell Oil Co., USA

SO U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 172,000.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4939251	A	19900703	US 1988-245618	19880916 <--
	CA 1335596	A1	19950516	CA 1989-608975	19890822 <--
	JP 02160787	A2	19900620	JP 1989-237400	19890914 <--
	EP 359341	A2	19900321	EP 1989-202341	19890915 <--
	EP 359341	A3	19910925		
	EP 359341	B1	19940216		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	US 5053518	A	19911001	US 1990-524412	19900516 <--
PRAI	US 1988-172000		19880323		
	US 1988-172052		19880323		
	US 1988-245433		19880916		
	US 1988-245434		19880916		
	US 1988-245618		19880916		
	US 1988-245619		19880916		
	US 1988-249934		19880927		
	US 1989-324870		19890317		

OS MARPAT 114:62952
AB [4.4]Spirodilactams (ring N atoms in 1,6-positions; either or both N atoms substituted with hydroxy-contg. C<30 groups) or [4.4]spirolactam-lactones (N atoms substituted with hydroxy-contg. C<30 group) are prepd. by reaction of 4-oxoheptanedioic acid or 1,6-dioxaspiro[4.4]nonane-2,7-dione (I) with H2NRX(R)rOH (R = C<10 aliph. or arom.; X = direct bond, C<8 alkylene, O, S, SO2, CO, dioxyphenylene, 2,2-di(oxyphenyl)propane, or dioxydiphenylene). The compds. are useful, e.g., as curing agents for epoxy resins. Reaction of I 25 with p-aminophenol 34.9 g in 100 mL AcNMe2 at 150.degree. with reflaxing for 12 h gave 1,6-di(4-hydroxyphenyl)-1,6-diazaspiro[4.4]nonene-2,7-dione (m.p. 320.degree.).

L8 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:7456 CAPLUS
DN 114:7456
TI Polymers containing alternating spirolactam and carbonyl moieties
IN Wang, Pen Chung
PA Shell Internationale Research Maatschappij B. V., Neth.
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 372656	A2	19900613	EP 1989-203087	19891205 <--
	EP 372656	A3	19920108		
	EP 372656	B1	19950607		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	US 4906725	A	19900306	US 1988-279671	19881205 <--
	US 4910285	A	19900320	US 1989-314515	19890223 <--
	US 5049640	A	19910917	US 1989-314514	19890223 <--
PRAI	US 1988-279671		19881205		
	US 1989-314514		19890223		
	US 1989-314515		19890223		
	US 1989-314516		19890223		

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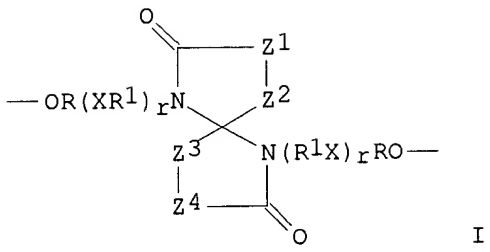

I

AB Linear copolymers with high glass temps. contain spirolactam units I [R = divalent C.ltoreq.15 arom. and .ltoreq.2 arom. rings; R1 = R or divalent C.ltoreq.10 aliph; r = 0 or **1**; X = direct bond C.ltoreq.8 alkylene, O, S, SO2, CO, dioxyphenylene, 2,2-bis(oxyphenyl)propane, bis(oxyphenyl)sulfone, dioxydiphenylene; Z1-4 = CZ52, Z5 = H, C1-4 alkyl, or halo or such that of adjacent Z atoms together are part of a benzene ring] alternating with carbonyl, phenylenedicarbonyl, carbonyldiphenylene, and cyanophenylene units. A mixt. of 33.8 g **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione, 25.**7** g (PhO)2CO, 0.02 g ZnO and 0.02 g Pb oxide was melted under N, and PhOH was distd. off at 180.degree./50 mm. After 0.5 h, the conditions were changed to 200.degree./15 mm, and after an addnl. 0.5 h, the pressure was reduced 2.3 mm. Heating further at 220.degree./2.3 mm for 0.5 h and 250.degree./2.3 mm for 2 h gave a hard polycarbonate with glass temp. 223.degree..

L8 ANSWER 16 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:613287 CAPLUS
DN 113:213287
TI 1,6-Diaza[4.4]-spirodilactam epoxyalkyl ether-containing thermosetting resin compositions
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4933423	A	19900612	US 1989-334406	19890407 <--
US 5001213	A	19910319	US 1990-474954	19900205 <--

PRAI US 1989-334406 19890407

AB Title improved glass transition temp. (Tg) compns. comprise an epoxyalkyl ether of **1**,6-diaza[4.4]spirodilactam having hydroxyaryl-contg. substituent on each spiro ring N and a diamine compd. A compn., prepd. by heating a mixt. of 82% **1**,6-di(4-glycidyloxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione (prepd. from 10.14 g **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione and 150 mL epichlorohydrin with 0.05 g ethyltriphenylphosphonium bromide) and 18% di(4-aminophenyl)methane at 150.degree. and 200.degree. 2-stage process, had Tg 185.degree..

L8 ANSWER 17 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:592729 CAPLUS
DN 113:192729
TI Thermosetting resin compositions comprising cyanatoarylspirodilactam

IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 4927908	A	19900522	US 1989-314519	19890223	<--
	EP 384518	A1	19900829	EP 1990-200323	19900212	<--
	EP 384518	B1	19940824			
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
	CA 2010537	AA	19900823	CA 1990-2010537	19900221	<--
	JP 02275881	A2	19901109	JP 1990-38566	19900221	<--
PRAI	US 1989-314512		19890223			
	US 1989-314518		19890223			
	US 1989-314519		19890223			
	US 1989-314520		19890223			

AB The title compns. given thermosetting resins with high glass temps. comprise (a) a cyanatoaryl-substituted **1**,6-diaza[4.4]spirodilactam having cyanatoaryl-contg. substituents on each spiro ring N atom and (b) .gtoreq.**1** addnl. polymerizable monomer having 2 substituents with multiple bonds between adjacent atoms. Reaction of Na salt of **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione with allyl chloride, subjecting to Claisen rearrangement at 200.degree., and treating with excess cyanogen bromide and Et3N gave **1**,6-di(4-cyanato-3-allylphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione, which was mixed with an equal portion of di(4-maleimidophenyl)methane, melted at 130-150.degree., heated at 200.degree. for 2 h and at 220.degree. for an addnl. 6 h giving a hard insol. resin with glass transition temp. >300.degree..

L8 ANSWER 18 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:592177 CAPLUS
DN 113:192177
TI **1**,6-**Diazaspiro**[**4**,**4**]**nonane**-2,**7**-dione derivatives and their cured compositions
IN Wang, Pen Chung
PA Shell Internationale Research Maatschappij B. V., Neth.
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	EP 359341	A2	19900321	EP 1989-202341	19890915	<--
	EP 359341	A3	19910925			
	EP 359341	B1	19940216			
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
	US 4847388	A	19890711	US 1988-245433	19880916	<--
	US 4889907	A	19891226	US 1988-245619	19880916	<--
	US 4895942	A	19900123	US 1988-245434	19880916	<--
	US 4939251	A	19900703	US 1988-245618	19880916	<--
	US 4888408	A	19891219	US 1988-249934	19880927	<--
PRAI	US 1988-245433		19880916			
	US 1988-245434		19880916			
	US 1988-245618		19880916			
	US 1988-245619		19880916			

	US 1988-249934	19880927
	US 1989-324870	19890317
	US 1988-171998	19880323
	US 1988-172000	19880323
	US 1988-172052	19880323
	US 1988-172054	19880323
	US 1988-175023	19880330
	US 1988-185574	19880425

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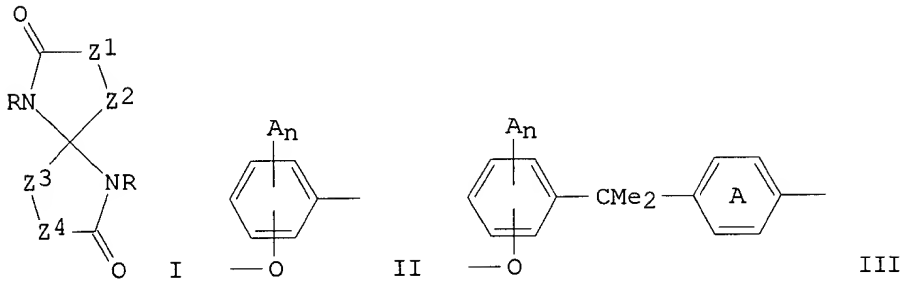


AB **1,6-Diazaspiro[4,4]nonane**
derivs. X[LY(MY)p]mLX in which L is I; Z1-Z4 are independently CZ52 in which Z5 is independently H or C1-4 alkyl, or 2 adjacent Z5 form part of a benzene ring; each R is independently II or III; A is C1-4 alkyl or halogen, n is 0, **1**, or 2, and the free valence bond of the C in ring A is linked to a ring N of I; m .gtoreq.0; each X is independently H, glycidyl, acrylyl, methacrylyl, allyl, or propargyl; Y is 2-hydroxy-**1,3**-propanediyl; each M independently a divalent group for a dihydric arom. alc.; p is av. 0-3; when R is bivalent II and Z2 and Z3 are CH2 and Z1 and Z4 are independently H or C1-4 alkyl, then each X .noteq. glycidyl. Thus, 100 g 4-oxoheptanedioic acid, 260.**7** g 2-(4-aminophenyl)-2-4-hydroxyphenyl)propane, and 250 mL N-methyl-2-pyrrolidine (IV) were stirred at 160.degree. for 72 h, cooled, IV was removed, and MeOH was added to ppt. the product. NMR indicated a major amt. of **1**,6-di[4-(4-hydroxyphenylisopropyl)phenyl]-**1,6-diazaspiro[4,4]nonane**
(V), which was reacted with allyl bromide, then heated with an equal wt. of bie(4-maleimidophenyl)methane, at 170.degree. for 2 h, at 210.degree. for 2 h, and 250.degree. for 6 h to give a cured product (insol. in ammonia) having glass temp. 312.degree..

L8 ANSWER 19 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:533125 CAPLUS
DN 113:133125
TI Polyspirodilactamsulfone thermoplastics
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4935489	A	19900619	US 1989-324871	19890317 <--
PRAI	US 1989-324871		19890317		

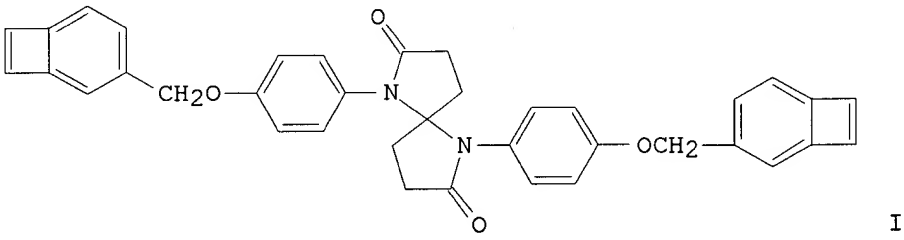
AB The title copolymers, which have relatively high glass transition temps. and which are processable without undue degrdn., comprise aryl sulfone

repeating units, **1**,6-diazaspirodilactam oxyaryl repeating units, and, optionally, dioxyphenyl compd. repeating units. Thus, 16.9 g of **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,7-dione, 250 mL DMSO, 50 mL PhMe, and 4 g NaOH were heated to 130-140.degree., the water formed was removed by azeotropic distn. with PhMe, the mixt. heated to 150-155.degree. for **1** h, the mixt. cooled to 50-60.degree., 14.3 g di(4-chlorophenyl) sulfone added, the mixt. rapidly heated to 145.degree. for 6 h, heated to 160.degree. for 0.5 h, cooled, poured into 15 L H2O which had been acidified with 5.0 g oxalic acid, and filtered, producing a polyspirodilactamsulfone having glass transition temp. 225.degree..

L8 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:498700 CAPLUS
DN 113:98700
TI 1,6-Diaza[4.4]spirodilactam derivative-based thermosetting compositions
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4921931	A	19900501	US 1989-324866	19890317 <--
PRAI US 1989-324866		19890317		

GI



I

AB The title compns., giving cured resins with high glass temps. and good phys. properties, comprise an arylcyclobutenylalkyl ether of a **1**,6-diaza[4.4]spirodilactam having a hydroxyaryl substituent on each spiro ring N atom and a monomer having .gtoreq.2 polymerizable groups. The reaction of **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,7-dione with benzocyclobutenylmethyl chloride in AcNMe2 gave I which was mixed with an equal amt. of bis(4-maleimidophenyl)methane and heated 6 h at 200-220.degree. to give a crosslinked resin having glass temp. 276.degree..

L8 ANSWER 21 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:441552 CAPLUS
DN 113:41552
TI Polyarylate polymers
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM

DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4910285	A	19900320	US 1989-314515	19890223 <--
	CA 2004474	AA	19900605	CA 1989-2004474	19891204 <--
	EP 372656	A2	19900613	EP 1989-203087	19891205 <--
	EP 372656	A3	19920108		
	EP 372656	B1	19950607		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	JP 02199121	A2	19900807	JP 1989-314503	19891205 <--
	ES 2072889	T3	19950801	ES 1989-203087	19891205 <--
	US 4977235	A	19901211	US 1989-454727	19891221 <--
PRAI	US 1988-279671		19881205		
	US 1989-314514		19890223		
	US 1989-314515		19890223		
	US 1989-314516		19890223		

AB Polyesters with high glass transition temp. (Tg) and useful for manuf. of shaped articles comprise alternating moieties derived from an arom. dicarboxylic acid halide, from a hydroxyaryl-substituted **1**,6-diaza[4.4]spirodilactam and optionally, from a di(hydroxyphenyl) compd. Thus, stirring **1**,6-di(hydroxyphenyl)-**1**,6-**diazaspiro[4.4]nonane**-2,7-dione 10.14, Et3N+(CH2Ph) Cl- 0.2, NaHSO3 0.02, NaOH 2.64 g in 135 mL H2O and 70 mL CH2ClCHCl2 (I) at 1200 rpm and <10.degree. under N, adding 6. **1** g isophthaloyl chloride in 40 mL I over 30 min, and polymg. for 4 h gave a polymer having Tg 231.degree.. A cup manufd. from this polymer had good dimensional stability at elevated temp.

L8 ANSWER 22 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:425054 CAPLUS
DN 113:25054
TI Unsaturated derivatives of hydroxyaryl-substituted **1**,6-**diazaspiro[4.4]nonane**-2,7-diones and their manufacture
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4847388	A	19890711	US 1988-245433	19880916 <--
	US 5013805	A	19910507	US 1989-357156	19890526 <--
	CA 1335596	A1	19950516	CA 1989-608975	19890822 <--
	JP 02160787	A2	19900620	JP 1989-237400	19890914 <--
	EP 359341	A2	19900321	EP 1989-202341	19890915 <--
	EP 359341	A3	19910925		
	EP 359341	B1	19940216		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
PRAI	US 1988-245433		19880916		
	US 1988-245434		19880916		
	US 1988-245618		19880916		
	US 1988-245619		19880916		
	US 1988-249934		19880927		
	US 1989-324870		19890317		

OS CASREACT 113:25054; MARPAT 113:25054
AB The title compds., giving insol. products with high glass-transition temp., useful for surface coatings, adhesive formulations, and

fiber-reinforced composites, are prepd. Thus, heating a mixt. of **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione and K2CO3 in DMF-PhCH3 to 150-160.degree. with concurrent removal of water, adding propargyl bromide in DMF at 80-90.degree., and heating at 100.degree. for 12 h produced **1**,6-bis[4-(propargyloxy)phenyl]-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione, which after curing at 210.degree. for 12 h had glass temp. 305.degree..

L8 ANSWER 23 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:407036 CAPLUS
DN 113:7036
TI Polyhydroxypolyesters containing **1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione residues
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 185,574, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 4889907	A	19891226	US 1988-245619	19880916	<--
	CA 1335596	A1	19950516	CA 1989-608975	19890822	<--
	JP 02160787	A2	19900620	JP 1989-237400	19890914	<--
	EP 359341	A2	19900321	EP 1989-202341	19890915	<--
	EP 359341	A3	19910925			
	EP 359341	B1	19940216			
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL					
PRAI	US 1988-171998		19880323			
	US 1988-172054		19880323			
	US 1988-185574		19880425			
	US 1988-245433		19880916			
	US 1988-245434		19880916			
	US 1988-245618		19880916			
	US 1988-245619		19880916			
	US 1988-249934		19880927			
	US 1989-324870		19890317			

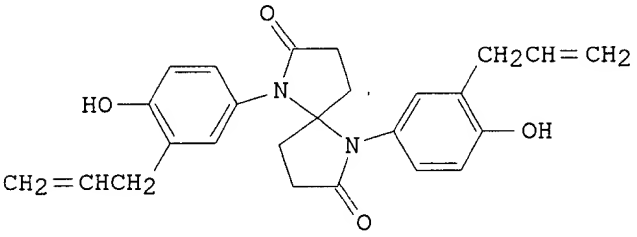
AB Polyhydroxypolyethers contg. residues of 2,2-di(hydroxyphenyl)propane and a **1**,6-diazaspiro[4.4]spirodilactam having oxyaryl substituents on each spiro ring N atom, which residues are connected by 2-hydroxy-**1**,3-propylidene bridges, are prepd. These polymers have high glass transition temps. (.gtoreq.155.degree.) and have applications similar to those of phenolic resins, but are also useful in engineering applications (e.g., containers for food and drink which are exposed to elevated temps.) (no data). Thus, a mixt. of 2,2-di(4-glycidyloxyphenyl)propane 3.4, **1**,6-di(4-hydroxyphenyl)-**1**,6-**diazaspiro**[**4.4**]**nonane**-2,**7**-dione 3.38, and Et(Ph)3PBr 0.1855 g was stirred and heated to 220.degree. for 6 h, producing a hard polymer having glass transition temp. 157.degree..

L8 ANSWER 24 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:236007 CAPLUS
DN 112:236007
TI Alkenylhydroxyphenyl derivatives of 1,6-diazaspiro[4.4]dilactams
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 5 pp.
CODEN: USXXAM

DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4886863	A	19891212	US 1989-314520	19890223 <--
	US 4968811	A	19901106	US 1989-356157	19890524 <--
	EP 384518	A1	19900829	EP 1990-200323	19900212 <--
	EP 384518	B1	19940824		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	CA 2010537	AA	19900823	CA 1990-2010537	19900221 <--
	JP 02275881	A2	19901109	JP 1990-38566	19900221 <--
PRAI	US 1989-314512		19890223		
	US 1989-314518		19890223		
	US 1989-314519		19890223		
	US 1989-314520		19890223		

OS CASREACT 112:236007; MARPAT 112:236007
GI



II

AB The title compds., useful in the prodn. of cured resins, are prepd. Heating 202.8 g **1**,6-bis(4-hydroxyphenyl)-**1**,6-**diazaspiro[4.4]nonane**-2,7-dione (I), 91.22 g K2CO3, 200 mL PhMe, and **1** L AcNMe2 at 150-160.degree. with distn. of H2O, cooling to 90.degree., adding 200.2 g allyl bromide in 200 mL AcNMe2 over 80 min, and heating 12 h at 90.degree. gave I diallyl ether, heating of which in N-methylpyrrolidone at 200-205.degree. for 12 h gave >90% dilactam II. Heating a **1**:**1** mixt. of II and N,N'-(methylene-di-p-phenylene)bismaleimide gave a tough, crosslinked resin.

L8 ANSWER 25 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1990:199311 CAPLUS
DN 112:199311
TI Preparation annd polymerization of unsaturated spirodilactams
IN Wang, Pen C.
PA Shell Oil Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4885351	A	19891205	US 1989-314512	19890223 <--
	US 4940801	A	19900710	US 1989-356158	19890524 <--
	EP 384518	A1	19900829	EP 1990-200323	19900212 <--
	EP 384518	B1	19940824		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				

	CA 2010537	AA	19900823	CA 1990-2010537	19900221 <--
	JP 02275881	A2	19901109	JP 1990-38566	19900221 <--
PRAI	US 1989-314512		19890223		
	US 1989-314518		19890223		
	US 1989-314519		19890223		
	US 1989-314520		19890223		

OS MARPAT 112:199311

AB **1**,6-Diaza[4.4]spirodilactams bearing unsatd. groups on each spiro ring N atom give cured products when heated with curing agents at >150.degree.. Heating 150 g 4-oxoheptanedioic acid, 100 g allylamine, 200 mL AcNMe2, and 50 mL PhMe at 140-160.degree. with azeotropic distn. of H2O gave 200.8 g N, N'-diallyl-**1**,6-**diazaspiro**[**4**.**4**]**nonane**-2,**7**-dione (I). Heating 50 parts I and 50 parts N,N'-(methylenedi-p-phenylene)bismaleimide at 200.degree. for 4 h and 220.degree. for 2 h gave a crosslinked product with glass temp. 237.degree..

L8 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1990:77163 CAPLUS

DN 112:77163

TI Quinolone- and naphthyridone-carboxylic acid derivatives, method for their preparation and antibacterial agents and food additives containing them

IN Petersen, Uwe; Schenke, Thomas; Grohe, Klaus; Schriewer, Michael; Haller, Ingo; Metzger, Karl Georg; Endermann, Rainer; Zeiler, Hans Joachim

PA Bayer A.-G., Fed. Rep. Ger.

SO Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW

DT Patent

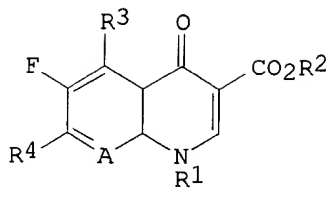
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 326916	A2	19890809	EP 1989-101242	19890125 <--
	EP 326916	A3	19900516		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	DE 3814517	A1	19890817	DE 1988-3814517	19880429 <--
	JP 01226883	A2	19890911	JP 1989-19946	19890131 <--
	JP 2788043	B2	19980820		
	FI 8900503	A	19890806	FI 1989-503	19890202 <--
	FI 94524	B	19950615		
	FI 94524	C	19950925		
	HU 49343	A2	19890928	HU 1989-544	19890203 <--
	HU 209300	B	19940428		
	HU 55357	A2	19910528	HU 1990-6247	19890203 <--
	HU 207292	B	19930329		
	US 5173484	A	19921222	US 1991-699880	19910514 <--
	US 5284842	A	19940208	US 1992-931746	19920818 <--
	US 5453422	A	19950926	US 1993-151603	19931112 <--
PRAI	DE 1988-3803478		19880205		
	DE 1988-3814517		19880429		
	DE 1988-3802478		19880205		
	US 1989-298459		19890118		
	US 1991-699880		19910514		
	US 1992-931746		19920818		

OS CASREACT 112:77163; MARPAT 112:77163

GI



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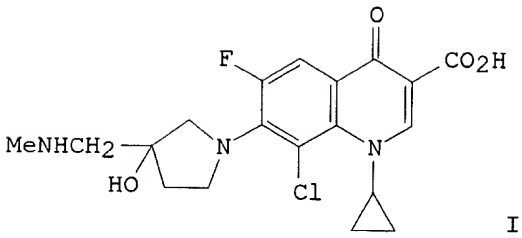

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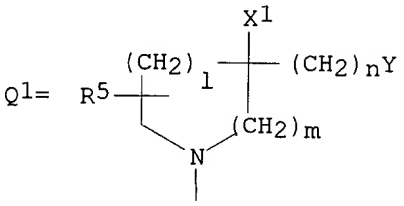
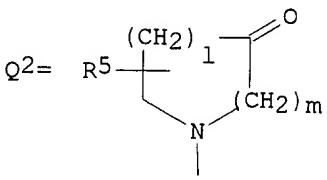
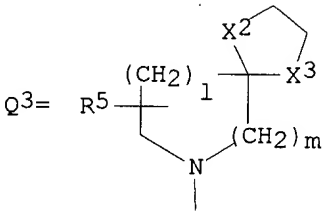






AB The title compds. [I; R1 = Me, Et, Pr, Me2CH, cyclopropyl, vinyl, HOCH2CH2, FCH2CH2, MeO, amino, Ph, 4-FC6H4, 2,4-F2C6H4; R2 = H, C1-4 alkyl, 5-methyl-2-oxo-1,3-dioxol-4-ylmethyl; R3 = H, amino; R4 = Q1, Q2, Q3; R5 = H, C1-3 alkyl, C3-6 cycloalkyl; R6 = H, halo, Me, CN, NO2; A = N, CR6; X1, Y = H, amino, OH, alkoxy, acyloxy, etc.; X2, X3 = O, S, NH, NMe; l = 0-2; m = 1, 2; n = 1], useful as antibacterials/feed additives, were prepd. Thus, a mixt. of 8-chloro-1-cyclopropyl-6,7-difluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid, 1,4-diazabicyclo[2.2.2]octane, and 3-hydroxy-3-(methylaminomethyl)pyridine hydrochloride were refluxed in MeCN/DMF for 1 h to give 7-aminoquinolone deriv. II. II inhibited Staphylococcus aureus with an MIC of 0.062 mg/L.

L8 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1961:90061 CAPLUS
DN 55:90061
OREF 55:16991a-c
TI Water-resistant greases
IN Potter, Ralph A.
PA Union Oil Co. of California
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2980612		19610418	US	<--

AB Non-soap greases are prepd. from mineral or synthetic ester lubricating oils, colloidal SiO2 or Al2O3 thickeners, and a polyoxyethylene deriv. of a sorbitan partial ester of a higher fatty acid (product of the reaction of ethylene oxide with an ester of sorbitol and C12-18 fatty acids). Colloidal SiO2 9, polyoxyethylene sorbitan tristearate 1, and a paraffinic lubricating oil (viscosity index 86, 52.5 Saybolt Universal sec. at 210.degree.F.) 90 parts by wt. were mixed with a spatula on a steel plate, heated to 320.degree.F. over a period of 10 min., and cooled with working. The product had an ASTM penetration of 260 at 77.degree.F. and showed no

breakdown or tendency to emulsify in a boiling-water test. Substitution of a synthetic-base oil (ester of sebacic acid and 2-ethylhexanol) gave a product with unworked penetration 270 at 77.degree.F. Greases with ASTM unworked penetrations of 240-65 at 77.degree.F. were similarly prepd. from the above mineral oil or other paraffinic mineral oils by substituting monooleate, monostearate, trioleate, and dilaurate esters for the tristearate.

L8 ANSWER 28 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1961:90060 CAPLUS
DN 55:90060
OREF 55:16991a
TI Lubricating grease
IN McCarthy, Paul R.; McGrath, Joseph J.
PA Gulf Research & Development Co.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 2979462		19610411	US		<--

AB A spiro II is used as the oil-thickening agent.

L8 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1961:90059 CAPLUS
DN 55:90059
OREF 55:16991a
TI Lubricating grease
IN McGrath, Joseph J.; Pellegrini, John P., Jr.
PA Gulf Research & Development Co.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 2979461		19610411	US		<--

AB A biphenyldicarboxylic acid is used in place of II.

L8 ANSWER 30 OF 30 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1961:90058 CAPLUS
DN 55:90058
OREF 55:16990h-i,16991a
TI Lubricating grease
IN McCarthy, Paul R.; McGrath, Joseph J.
PA Gulf Research & Development Co.
DT Patent
LA Unavailable
FAN.CNT 1

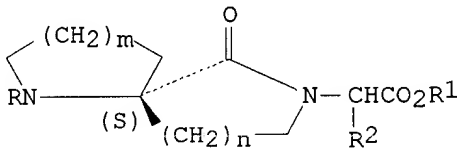
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 2979460		19610411	US		<--

AB Lubricating oil is thickened by adding a secondary organophilic siliceous (I) material and a 5,5-disubstituted hydantoin (II), where the substituents are alkyl, aryl, alkaryl, aralkyl, or cycloalkyl radical, and at least 1 is a carbocyclic radical. The I may be a bentonite-org. base compd., such as the bentones and finely divided organosiliceous solids, such as the Estersils. The wt. ratio of II to I is about 1:1 to 20:1, with the total wt. being 10-60% of the grease compn.

AN 1990:553050 CAPLUS
DN 113:153050
TI Preparation of spirolactam derivatives as intermediates for peptide agonists and antagonists of substance P
IN Ward, Peter; Ewan, George Blanch
PA Glaxo Group Ltd., UK
SO Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 360390	A1	19900328	EP 1989-307442	19890721
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 02124887	A2	19900514	JP 1989-190732	19890725
	US 5166136	A	19921124	US 1989-384685	19890725
PRAI	GB 1988-17711		19880725		
	GB 1989-5286		19890308		

OS MARPAT 113:153050
GI



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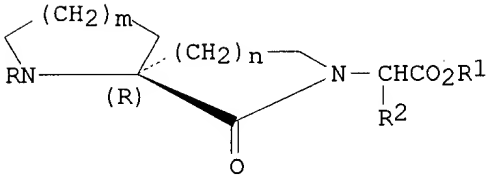
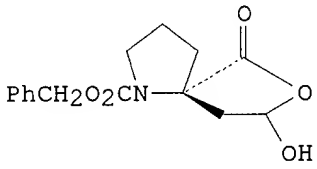


II



III

AB Title derivs. I and II [R = H or conventional N-protecting group; R1 = H or conventional CO2H-protecting or -activating group; R2 = sidechain of naturally occurring amino acid (may be R and/or S); m, n = 1, 2; addnl. provisos] are prepd. as intermediates for antagonists and agonists, resp., of substance P (no data). Thus, (2S)-2-propenylproline-HCl was prepd. and converted in 2 steps to spirocyclic hydroxy lactone III; reductive amination of III with leucine Me ester and NaBH3CN gave I [R = PhCH2O2C, R1 = Me, R2 = (S)-CH2CHMe2, m = n = 1]. The latter was converted via both liq.- and solid-phase techniques to the peptide analog H-Arg-Pro-Lys-Pro-Glu(NH2)-Glu(NH2)-Phe-Phe-X-Trp-NH2 [X = 4-methyl-1-oxo-2(S)-(6-oxo-5(S)-**1,7-diazaspiro[4.4]nonan-7**-yl)pentyl].

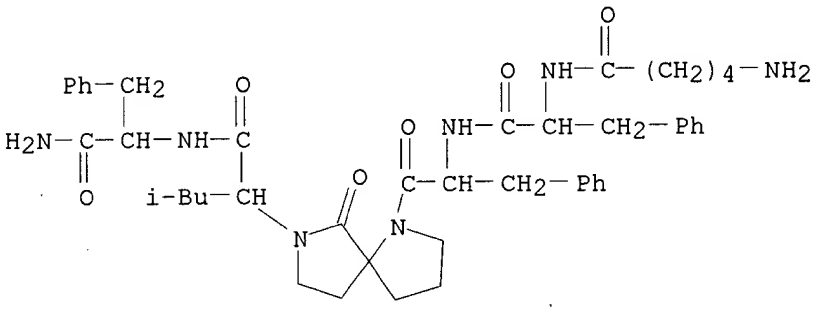
=> d hit

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AB Title derivs. I and II [R = H or conventional N-protecting group; R1 = H or conventional CO2H-protecting or -activating group; R2 = sidechain of naturally occurring amino acid (may be R and/or S); m, n = 1, 2; addnl. provisos] are prepd. as intermediates for antagonists and agonists, resp., of substance P (no data). Thus, (2S)-2-propenylproline-HCl was prepd. and

converted in 2 steps to spirocyclic hydroxy lactone III; reductive amination of III with leucine Me ester and NaBH3CN gave I [R = PhCH2O2C, R1 = Me, R2 = (S)-CH2CHMe2, m = n = 1]. The latter was converted via both liq.- and solid-phase techniques to the peptide analog H-Arg-Pro-Lys-Pro-Glu(NH2)-Glu(NH2)-Phe-Phe-X-Trp-NH2 [X = 4-methyl-1-oxo-2(S)-(6-oxo-5(S)-**1,7-diazaspiro**[**4.4**]**nonan**-**7**-yl)pentyl].

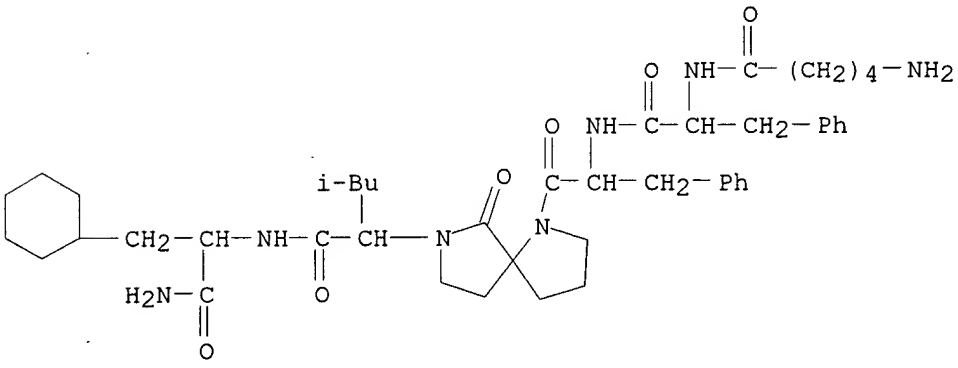
IT Allergy inhibitors
Analgesics
Inflammation inhibitors
(substance P analogs, prepn. of spirolactam derivs. as intermediates for)

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, 1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-N-[2-amino-2-oxo-1-(phenylmethyl)ethyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C45 H59 N7 O6

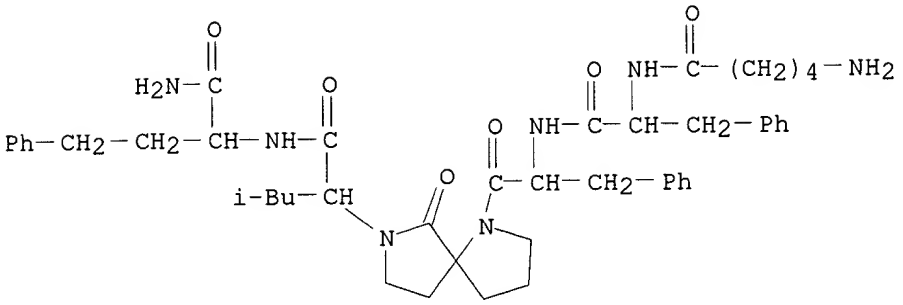


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):39

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[2-amino-1-(cyclohexylmethyl)-2-oxoethyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C45 H65 N7 O6

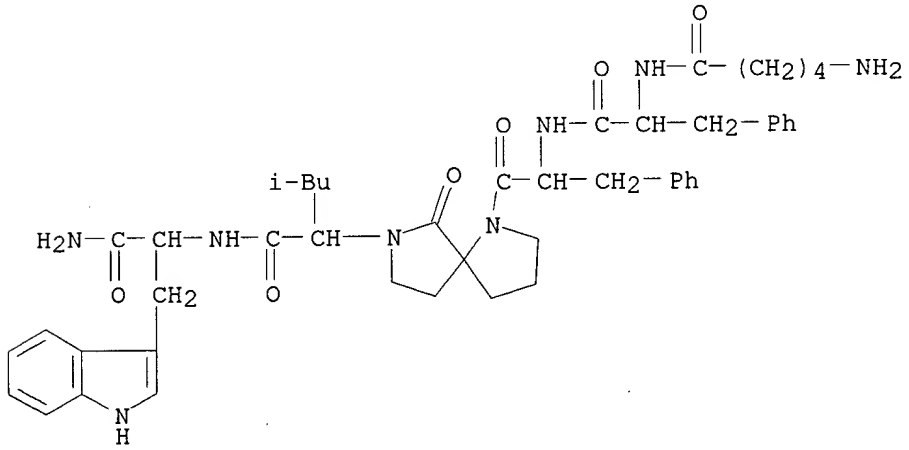


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[1-(aminocarbonyl)-3-phenylpropyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C46 H61 N7 O6



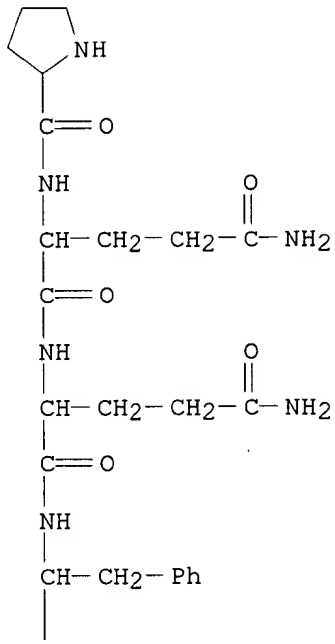
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C47 H60 N8 O6

RELATED SEQUENCES AVAILABLE WITH SEQLINK

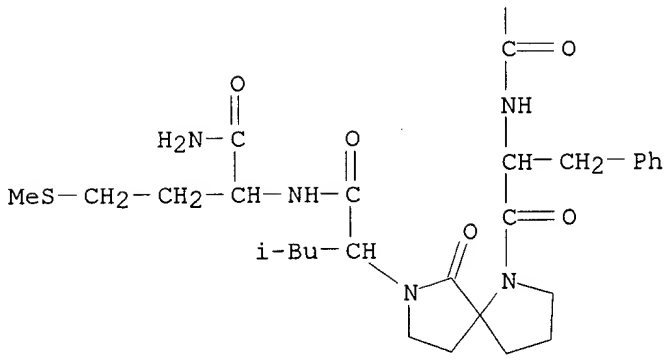


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Phenylalaninamide, L-prolyl-L-glutaminyl-L-glutaminyl-N-[2-[7-[1-[[[1-(aminocarbonyl)-3-(methylthio)propyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-2-oxo-1-(phenylmethyl)ethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]- (9CI)**
SQL 8
MF C51 H73 N11 O10 S

PAGE 1-A

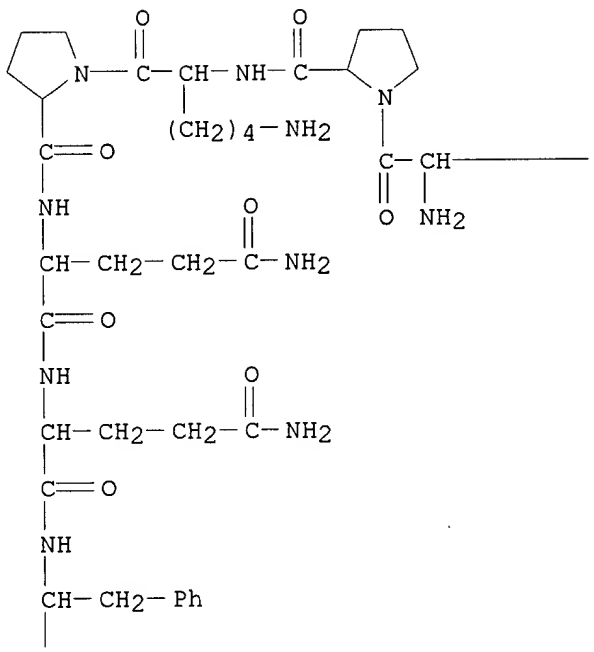


PAGE 2-A



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Substance P, 9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]- (9CI)**
SQL 11
MF C68 H104 N18 O13 S

PAGE 1-A



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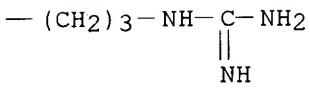

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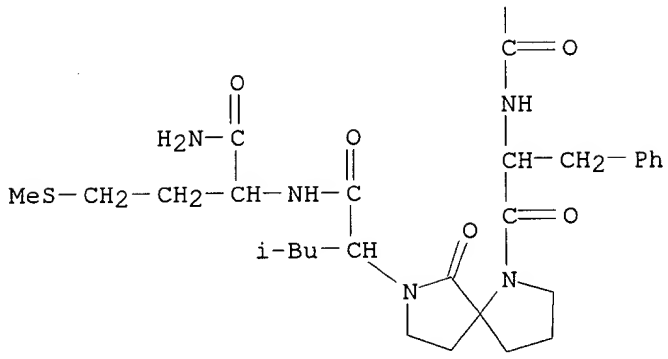
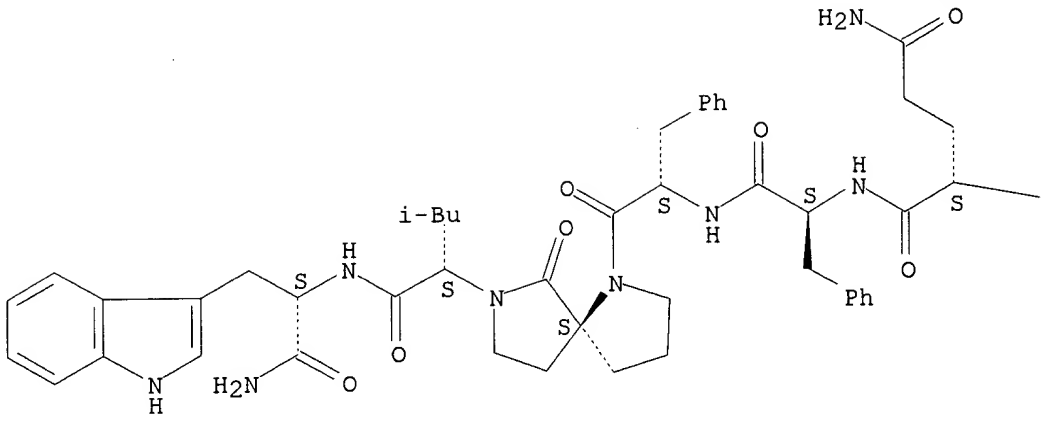


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Substance P, 9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11

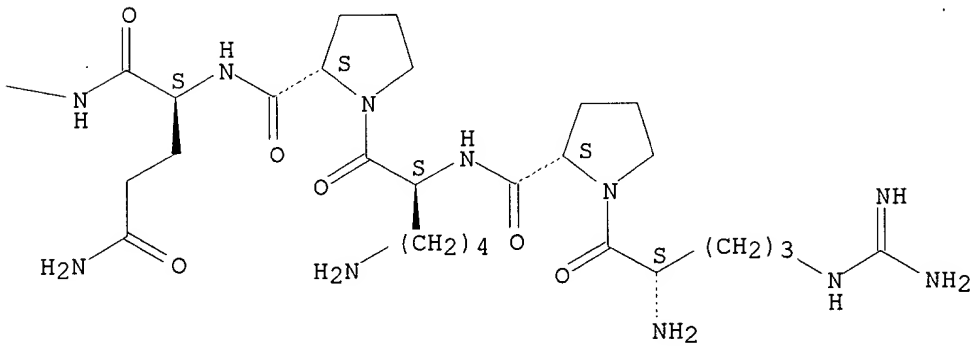
MF C74 H105 N19 O13

Absolute stereochemistry.

PAGE 1-A

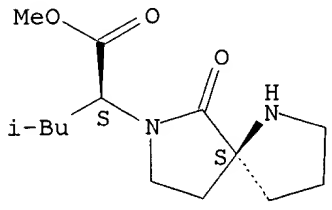


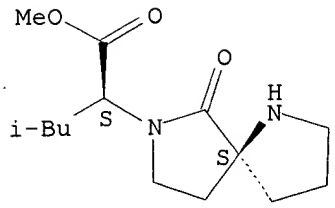
PAGE 1-B



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, .alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [S-(R*,R*)]- (9CI)**
MF C14 H24 N2 O3

Absolute stereochemistry.

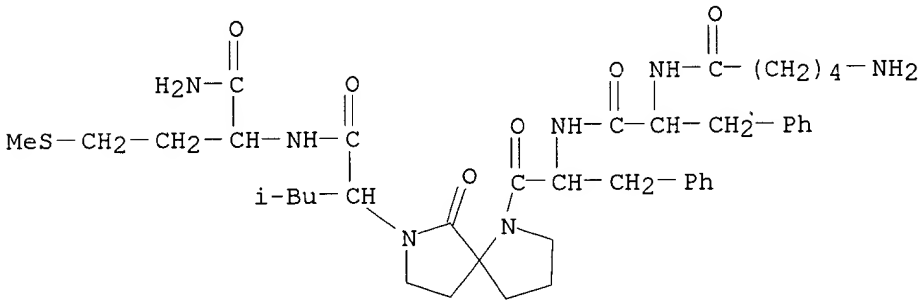




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

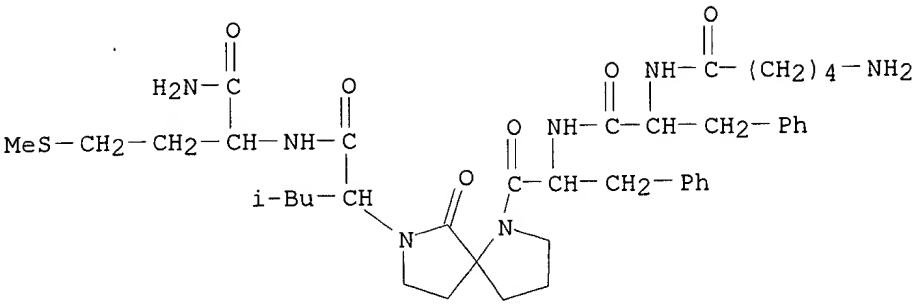
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[1-(aminocarbonyl)-3-(methylthio)propyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]-(9CI)**
SQL 6
MF C41 H59 N7 O6 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK



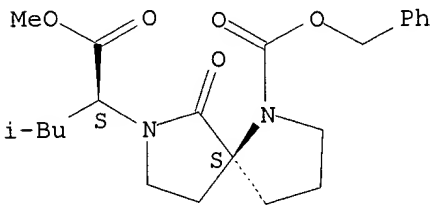
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[1-(aminocarbonyl)-3-(methylthio)propyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(S*)]]]-(9CI)**
SQL 6
MF C41 H59 N7 O6 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, .alpha.-(2-methylpropyl)-6-oxo-1-[(phenylmethoxy)carbonyl]-, methyl ester, (.alpha.S,5S)- (9CI)**
MF C22 H30 N2 O5

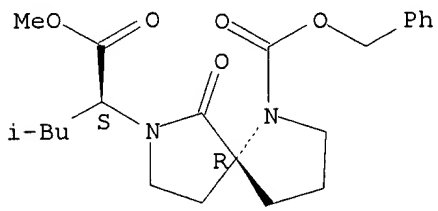
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, .alpha.-(2-methylpropyl)-6-oxo-1-[(phenylmethoxy)carbonyl]-, methyl ester, (.alpha.S,5R)- (9CI)**
MF C22 H30 N2 O5

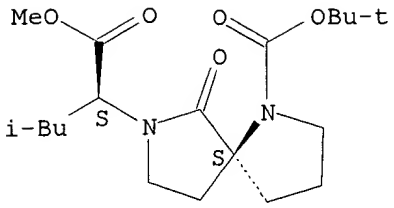
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[(1,1-dimethylethoxy)carbonyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, (.alpha.S,5S)- (9CI)**
MF C19 H32 N2 O5

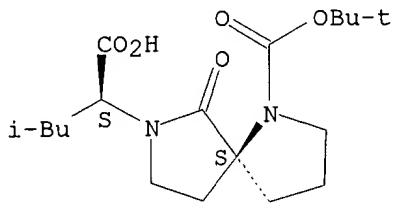
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[(1,1-dimethylethoxy)carbonyl]-.alpha.-(2-methylpropyl)-6-oxo-, [S-(R*,R*)]- (9CI)**
MF C18 H30 N2 O5

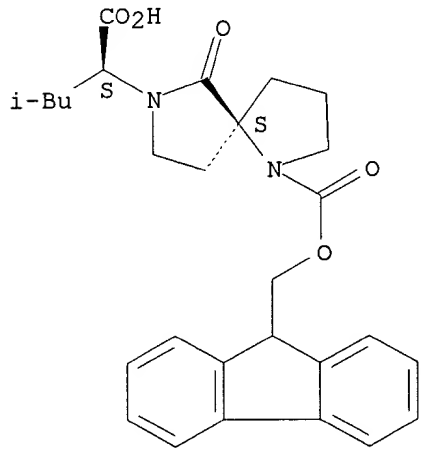
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[(9H-fluoren-9-ylmethoxy)carbonyl]-.alpha.-(2-methylpropyl)-6-oxo-, [S-(R*,R*)]- (9CI)**
MF C28 H32 N2 O5

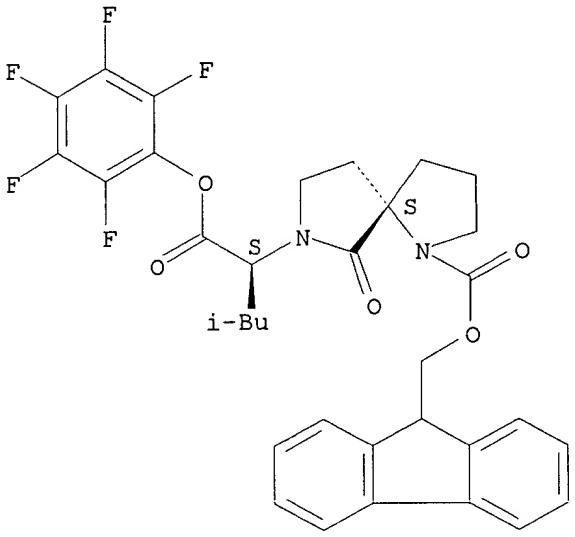
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[(9H-fluoren-9-ylmethoxy)carbonyl]-.alpha.-(2-methylpropyl)-6-oxo-, pentafluorophenyl ester, [S-(R*,R*)]- (9CI)**
MF C34 H31 F5 N2 O5

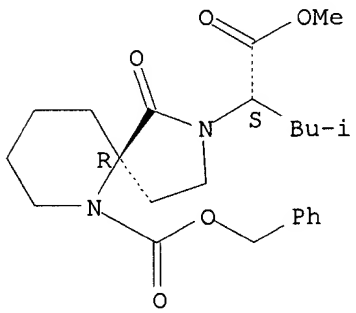
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **2,6-Diazaspiro[4.5]decane-2-acetic acid, .alpha.-(2-methylpropyl)-1-oxo-6-[(phenylmethoxy)carbonyl]-, methyl ester, [R-(R*,S*)]- (9CI)**
MF C23 H32 N2 O5

Absolute stereochemistry.

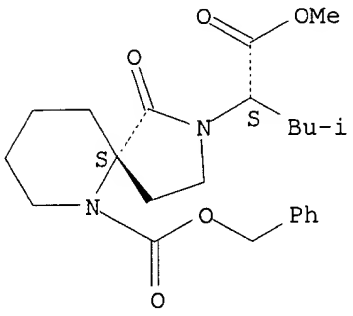


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **2,6-Diazaspiro[4.5]decane-2-acetic acid, .alpha.-(2-methylpropyl)-1-**

oxo-6-[(phenylmethoxy)carbonyl]-, methyl ester, [S-(R*,R*)]- (9CI)
MF C23 H32 N2 O5

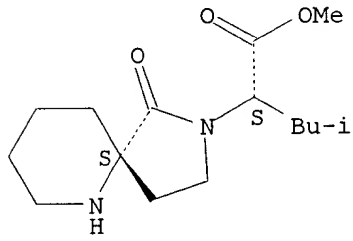
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

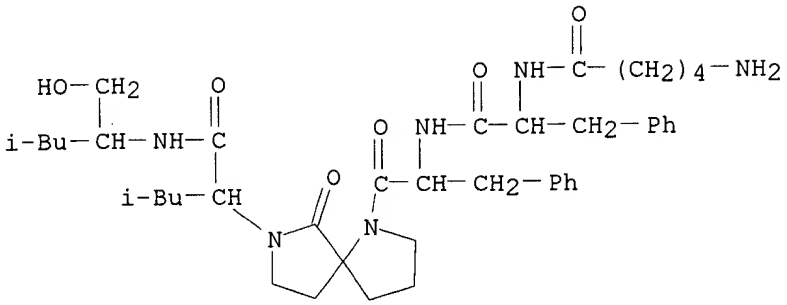
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **2,6-Diazaspiro[4.5]decane-2-acetic acid, .alpha.-(2-methylpropyl)-1-oxo-, methyl ester, [S-(R*,R*)]- (9CI)**
MF C15 H26 N2 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

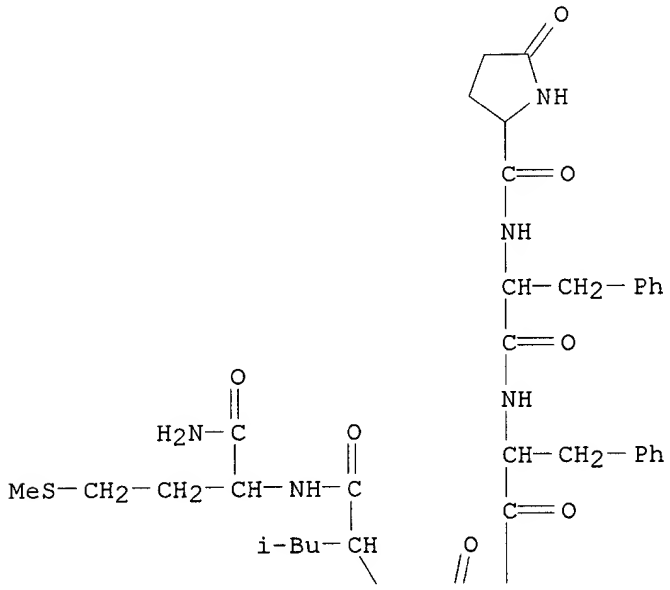
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, 1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-N-[1-(hydroxymethyl)-3-methylbutyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C42 H62 N6 O6



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Phenylalaninamide, 5-oxo-L-prolyl-N-[2-[7-[1-[[[1-(aminocarbonyl)-3-(methylthio)propyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-2-oxo-1-(phenylmethyl)ethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]- (9CI)**
SQL 6
MF C41 H55 N7 O7 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PAGE 1-A



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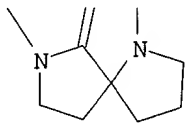
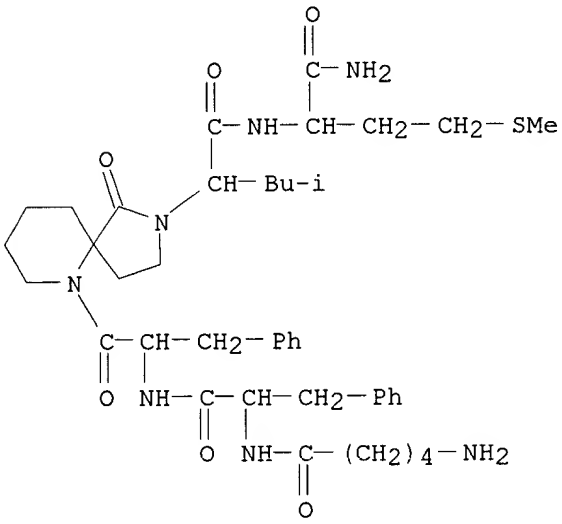


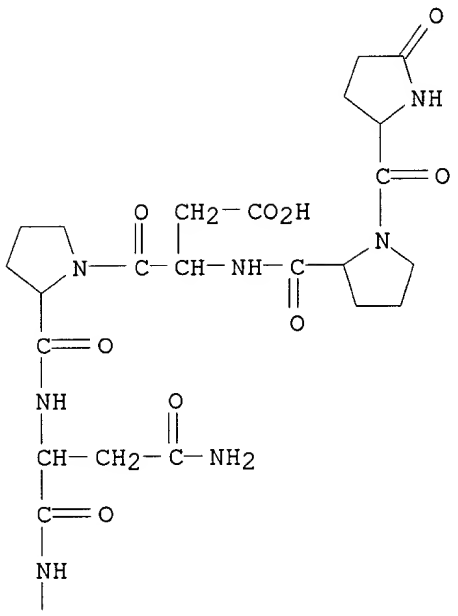
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **2,6-Diazaspiro[4.5]decane-2-acetamide, N-[1-(aminocarbonyl)-3-(methylthio)propyl]-6-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-1-oxo-, [5S-[2[R*(R*)],5R*]]- (9CI)**
SQL 6
MF C42 H61 N7 O6 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK

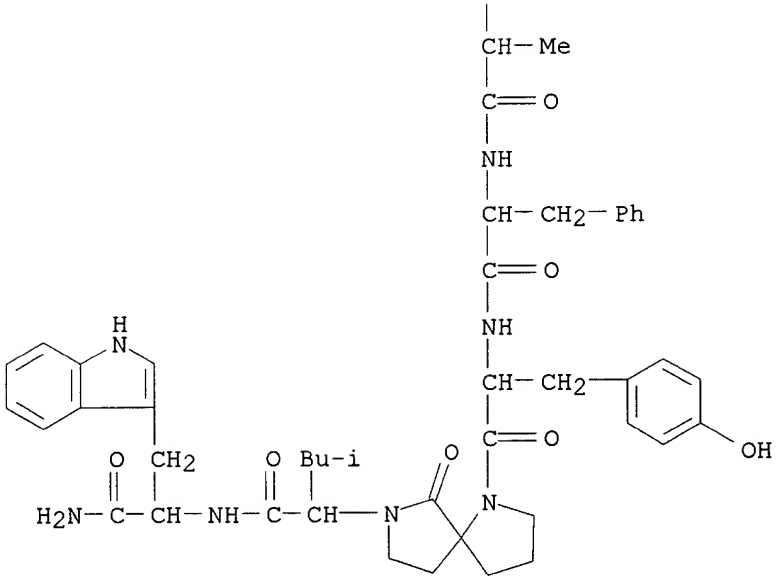


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Physalemin, 2-L-proline-6-L-alanine-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11
MF C68 H86 N14 O16

PAGE 1-A

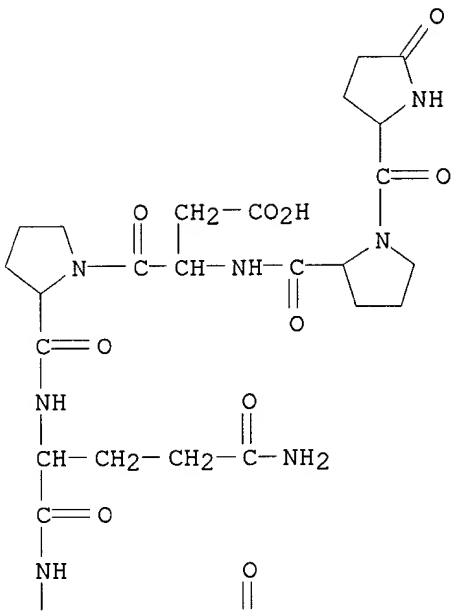


PAGE 2-A



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Substance P, 1-(5-oxo-L-proline)-3-L-aspartic acid-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11
MF C71 H91 N15 O16

PAGE 1-A



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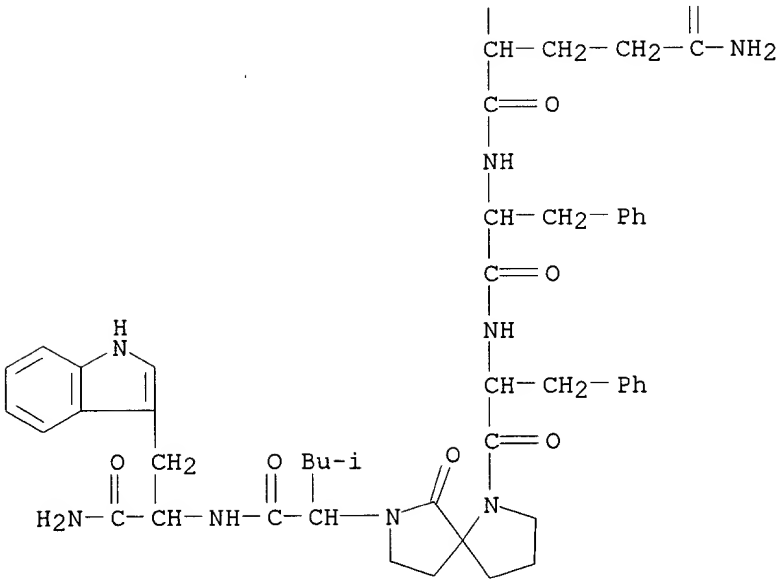
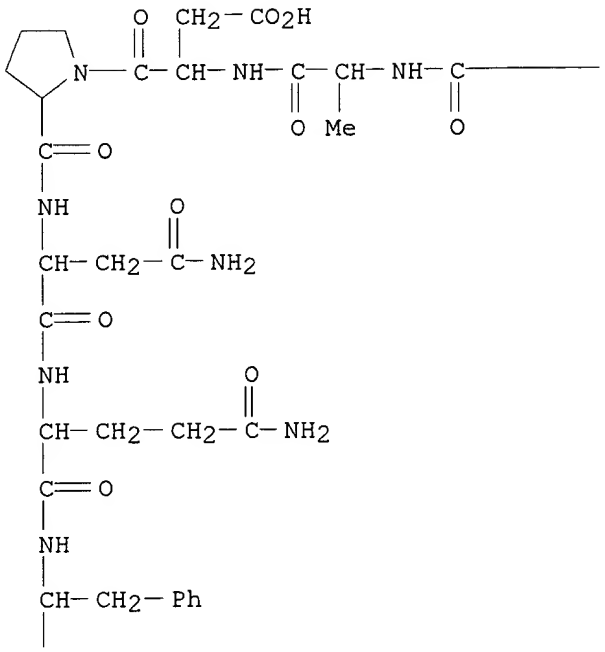
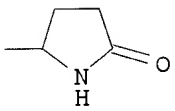


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Physalemin, 6-L-glutamine-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11
MF C68 H87 N15 O17

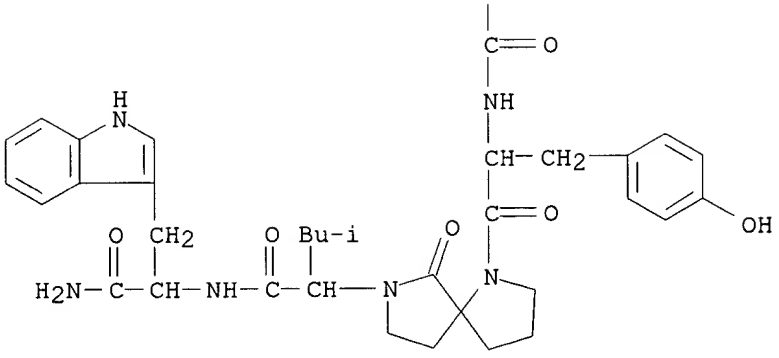
PAGE 1-A



PAGE 1-B

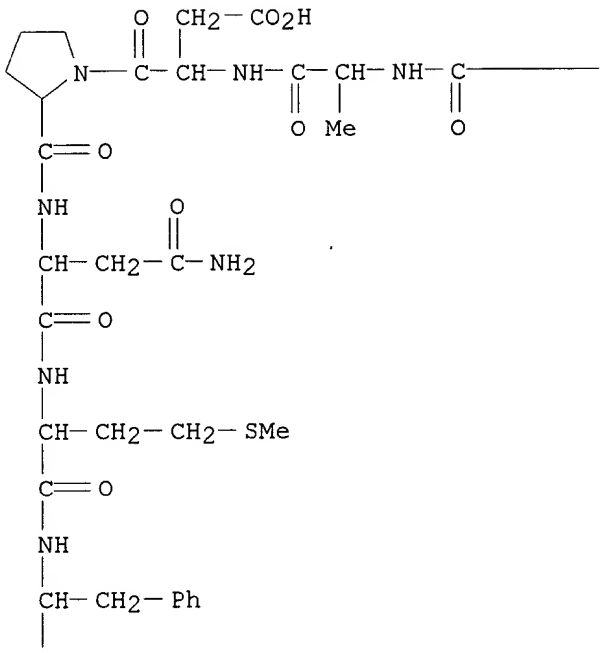


PAGE 2-A



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Physalemin, 6-L-methionine-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11
MF C68 H88 N14 O16 S

PAGE 1-A



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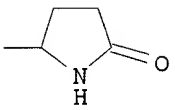

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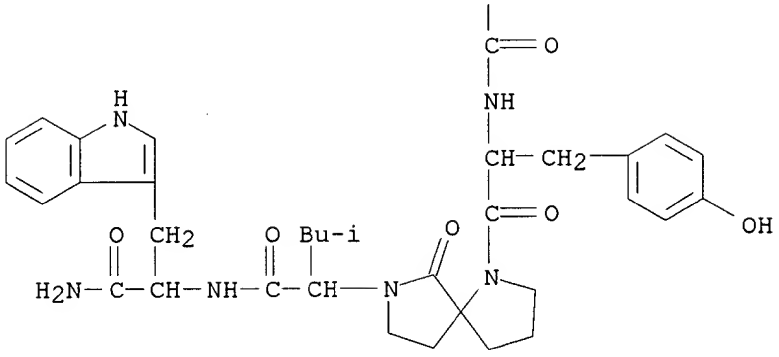
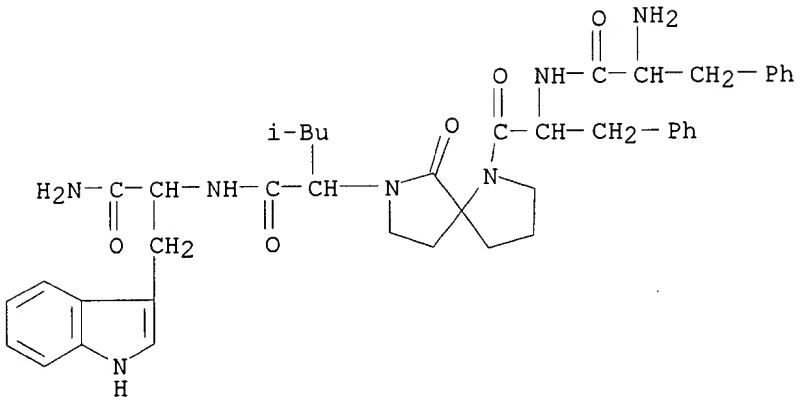
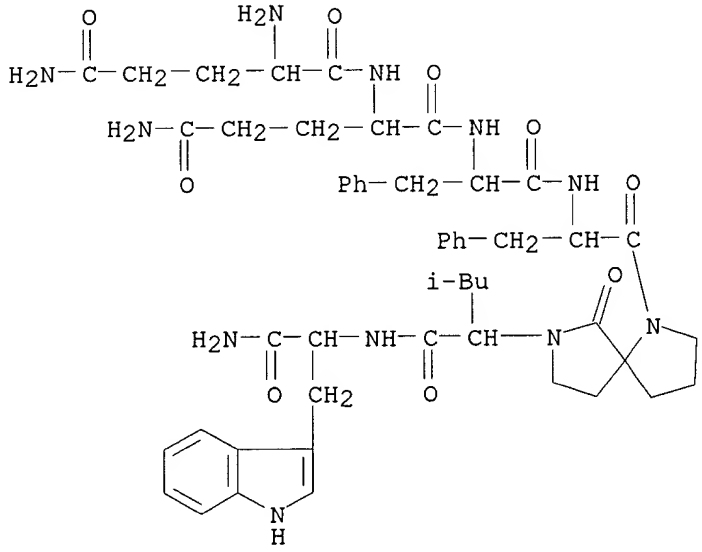


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-.alpha.-(2-methylpropyl)-6-oxo-1-(N-L-phenylalanyl-L-phenylalanyl)-, [5S-[5R*,7[R*(R*)]]]- (9CI)**
SQL 5
MF C42 H51 N7 O5



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Phenylalaninamide, L-glutaminyl-L-glutaminyl-N-[2-[7-[1-[[[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-2-oxo-1-(phenylmethyl)ethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]- (9CI)**
SQL 7
MF C52 H67 N11 O9



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Substance P, 1-de-L-arginine-2-de-L-proline-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 9
MF C63 H86 N14 O11

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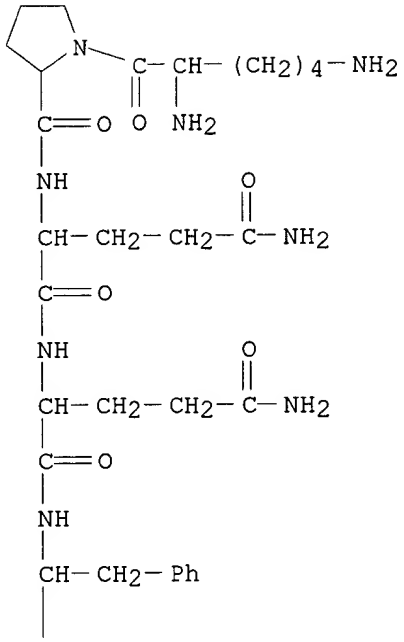

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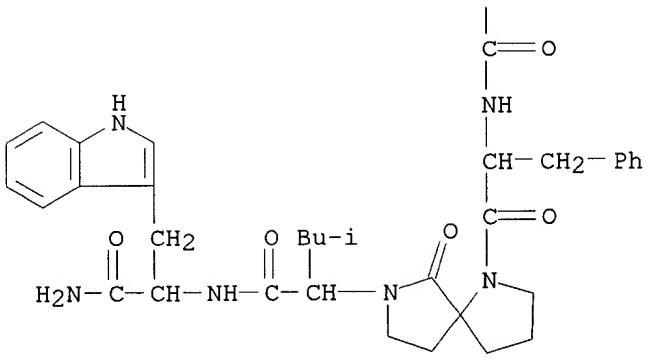
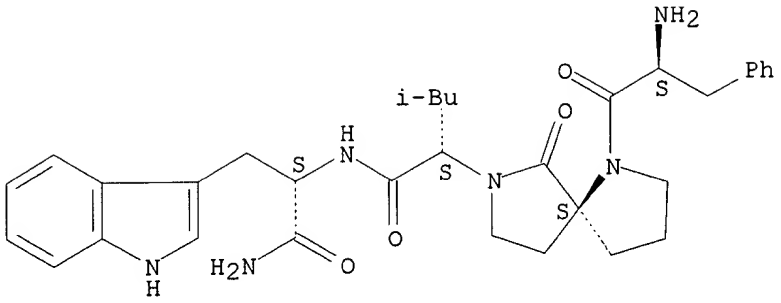


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-1-(2-amino-1-oxo-3-phenylpropyl)-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[1(R*),5R*,7[R*(R*)]]]- (9CI)**
SQL 4
MF C33 H42 N6 O4

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

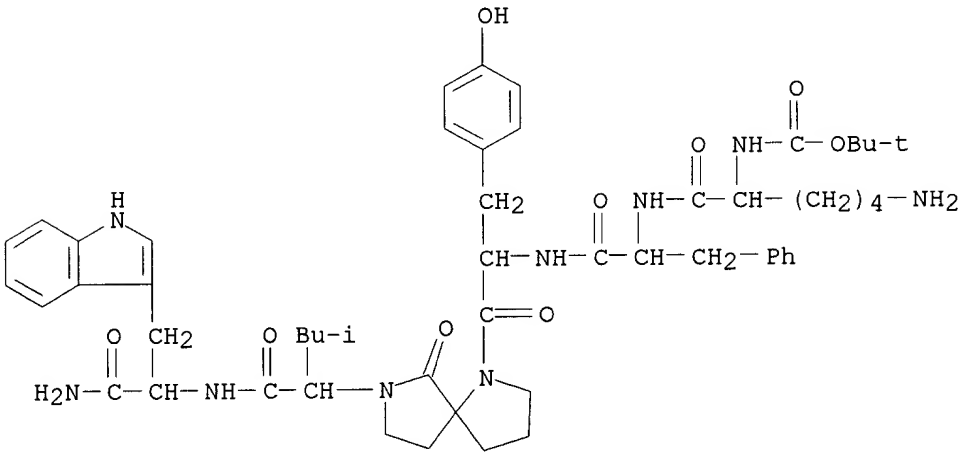


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Phenylalaninamide, N2-[(1,1-dimethylethoxy)carbonyl]-L-lysyl-N-[2-[7-[1-[[[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-1-[(4-hydroxyphenyl)methyl]-2-oxoethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]-, trifluoroacetate (salt) (9CI)**
SQL 6
MF C53 H71 N9 O9 . x C2 H F3 O2

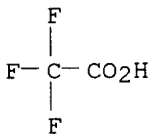
RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK



CM 2



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Phenylalaninamide, N2-acetyl-L-lysyl-N-[2-[7-[1-[[[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-**

diazaspiro[4.4]non-1-yl]-1-[(4-hydroxyphenyl)methyl]-2-oxoethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]-, trifluoroacetate (salt) (9CI)

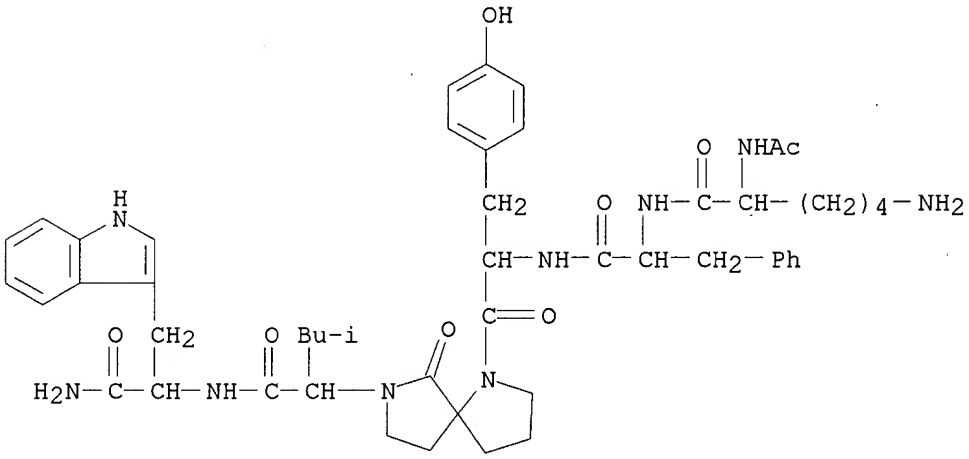
SQL 6

MF C50 H65 N9 O8 . x C2 H F3 O2

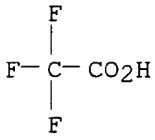
RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK



CM 2



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN **L-Phenylalaninamide, N2-[(1,1-dimethylethoxy)carbonyl]-L-glutaminyl-L-lysyl-N-[2-[7-[1-[[[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-1-[(4-hydroxyphenyl)methyl]-2-oxoethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]-(9CI)**

SQL 7

MF C58 H79 N11 O11

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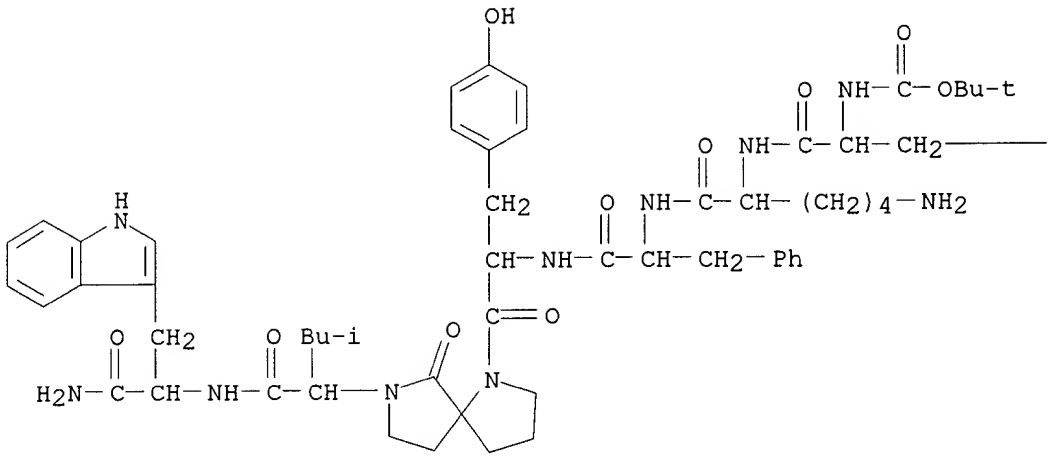

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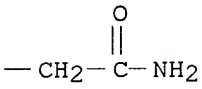
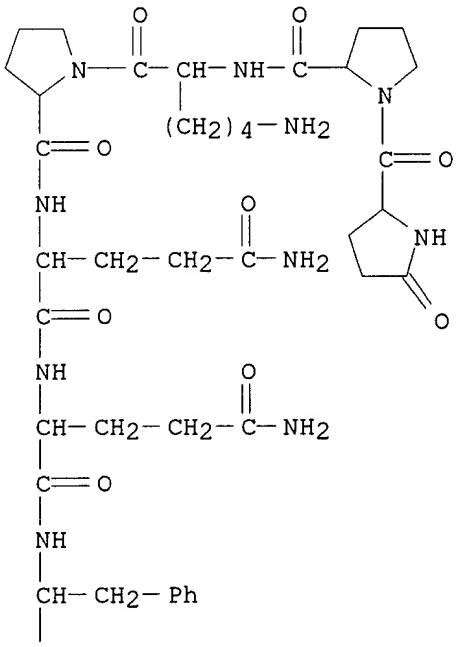
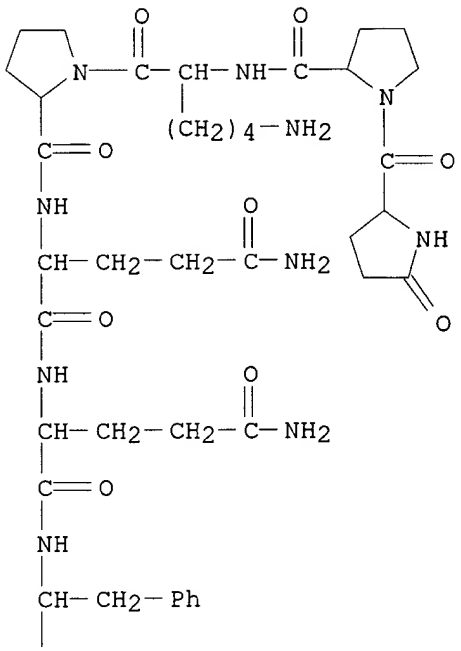


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **Substance P, 1-(5-oxo-L-proline)-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**
SQL 11
MF C73 H98 N16 O14

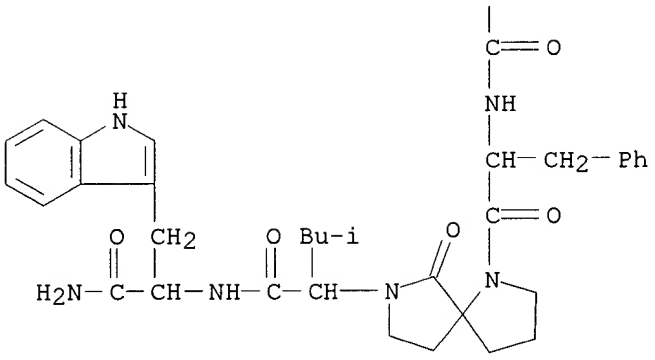
PAGE 1-A



PAGE 1-A

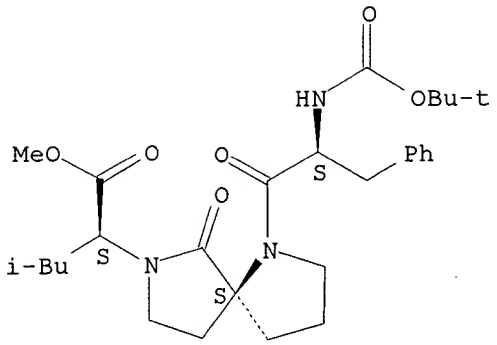


PAGE 2-A



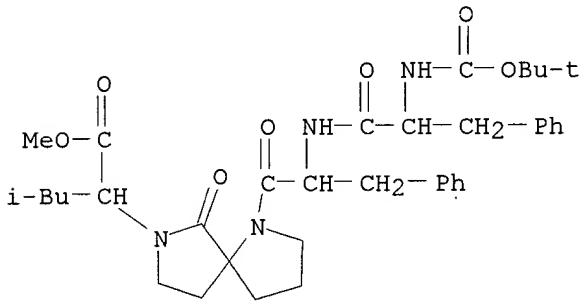
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [5S-[1(R*),5R*,7(R*)]]- (9CI)**
MF C28 H41 N3 O6

Absolute stereochemistry.



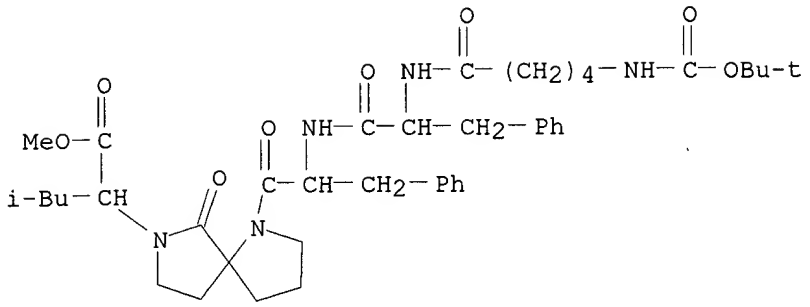
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [S-(R*,R*)]- (9CI)**
SQL 4
MF C37 H50 N4 O7



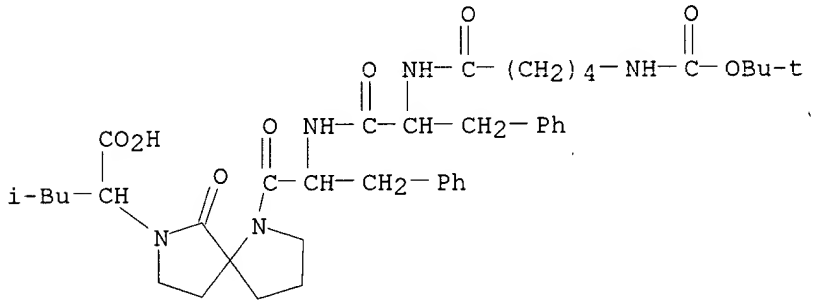
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[N-[N-[5-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxopentyl]-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [S-(R*,R*)]- (9CI)**
SQL 5
MF C42 H59 N5 O8

RELATED SEQUENCES AVAILABLE WITH SEQLINK



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[N-[N-[5-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxopentyl]-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [S-(R*,R*)]- (9CI)**
SQL 5
MF C41 H57 N5 O8

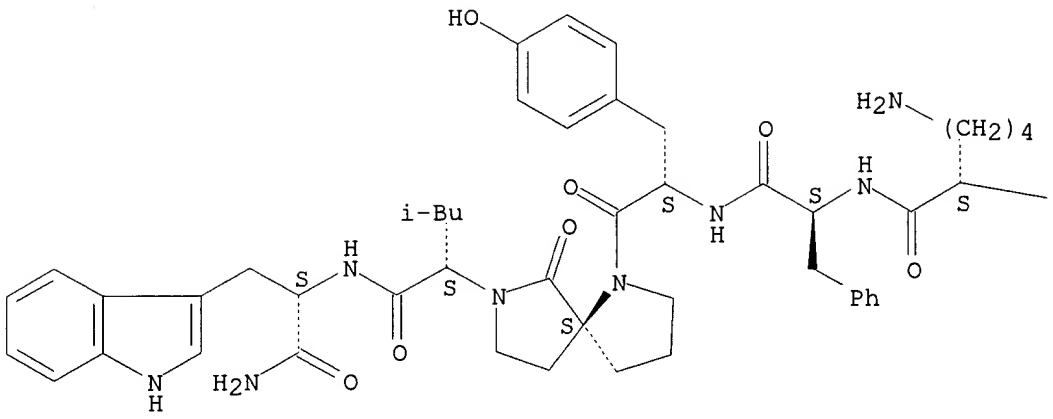
RELATED SEQUENCES AVAILABLE WITH SEQLINK



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **L-Tryptophanamide, 5-oxo-L-prolyl-L-alanyl-L-.alpha.-aspartyl-L-prolyl-L-asparaginyl-L-lysyl-L-phenylalanyl-L-tyrosyl-(.alpha.S,5S)-.alpha.-(2-methylpropyl)-6-oxo-1,7-diazaspiro[4.4]nonane-7-acetyl- (9CI)**
SQL 11
MF C69 H91 N15 O16

Absolute stereochemistry.

PAGE 1-A



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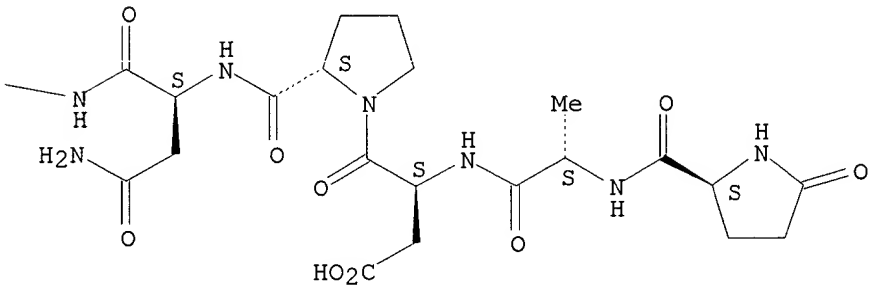

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN **Physalemin, 2-L-proline-9-deglycine-10-[(5S)-6-oxo-L-.alpha.-(2-methylpropyl)-1,7-diazaspiro[4.4]nonane-7-acetic acid]-11-L-tryptophanamide- (9CI)**

SQL 11

MF C71 H93 N15 O16

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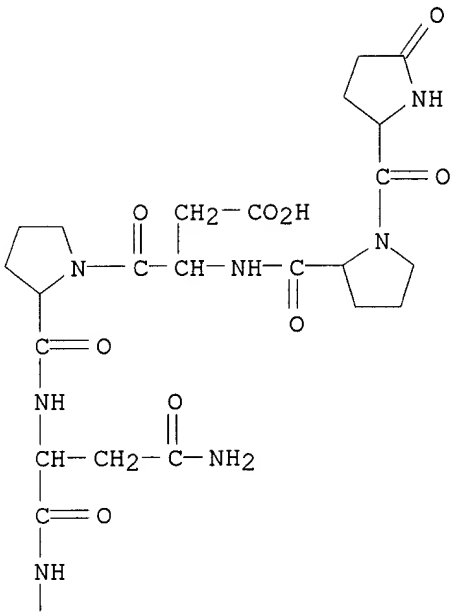

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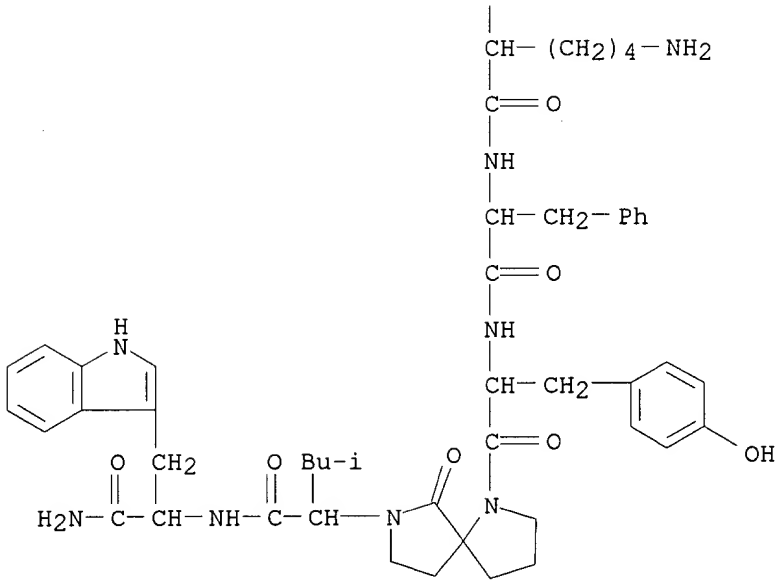


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN **L-Phenylalaninamide, L-tyrosyl-N-[2-[7-[1-[[[2-amino-1-(1H-indol-3-ylmethyl)-2-oxoethyl]amino]carbonyl]-3-methylbutyl]-6-oxo-1,7-diazaspiro[4.4]non-1-yl]-1-[(4-hydroxyphenyl)methyl]-2-oxoethyl]-, [5S-[1(R*),5R*,7[R*(R*)]]]-, trifluoroacetate (salt) (9CI)**

SQL 6

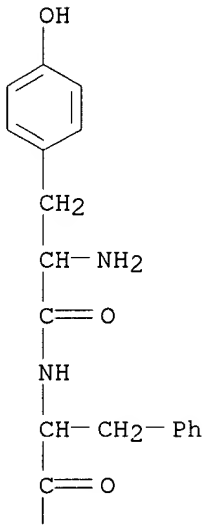
MF C51 H60 N8 O8 . x C2 H F3 O2

RELATED SEQUENCES AVAILABLE WITH SEQLINK

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PAGE 1-A



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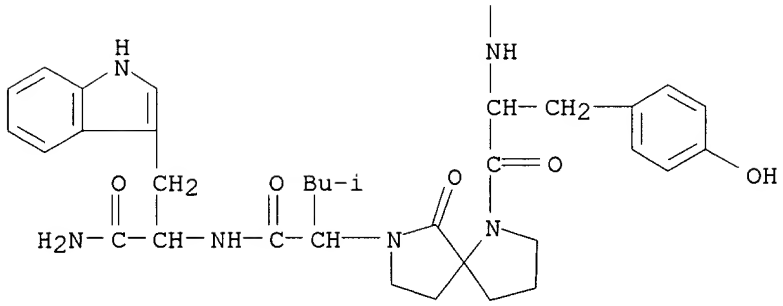
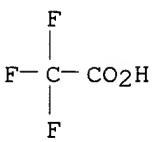
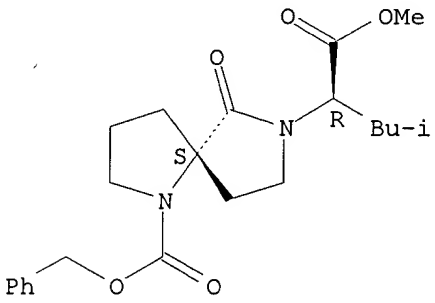


CM 2



L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, .alpha.-(2-methylpropyl)-6-oxo-1-[(phenylmethoxy)carbonyl]-, methyl ester, (R*,S*)- (9CI)**
MF C22 H30 N2 O5

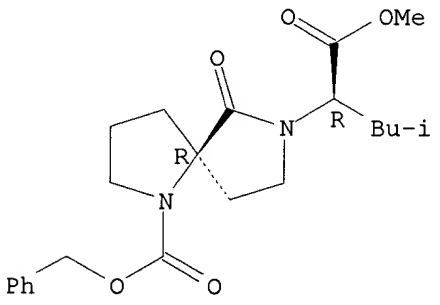
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, .alpha.-(2-methylpropyl)-6-oxo-1-[(phenylmethoxy)carbonyl]-, methyl ester, (R*,R*)- (9CI)**
MF C22 H30 N2 O5

Relative stereochemistry.

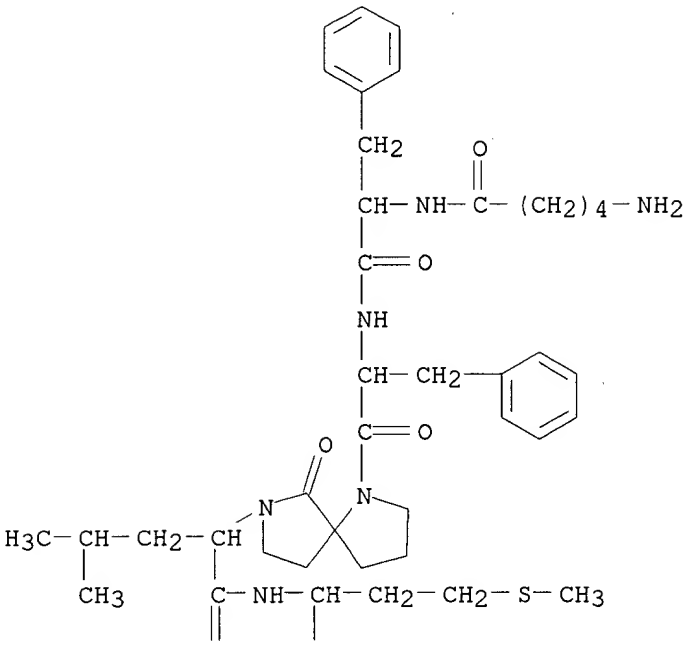


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

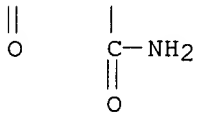
L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[1-(aminocarbonyl)-3-(methylthio)propyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5S-[5R*,7[S*(R*)]]]- (9CI)**
SQL 6
MF C41 H59 N7 O6 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PAGE 1-A



PAGE 2-A

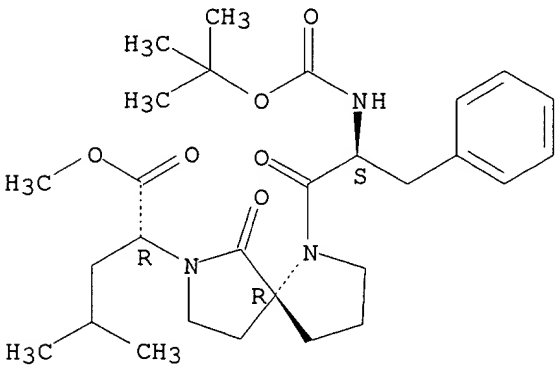


L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [5R-[1(S*),5R*,7(R*)]]- (9CI)**

MF C28 H41 N3 O6

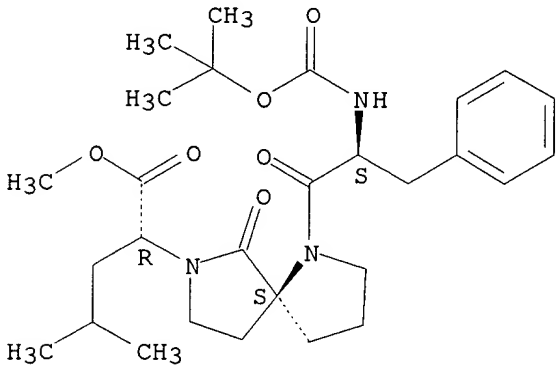
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [5S-[1(R*),5R*,7(S*)]]- (9CI)**
MF C28 H41 N3 O6

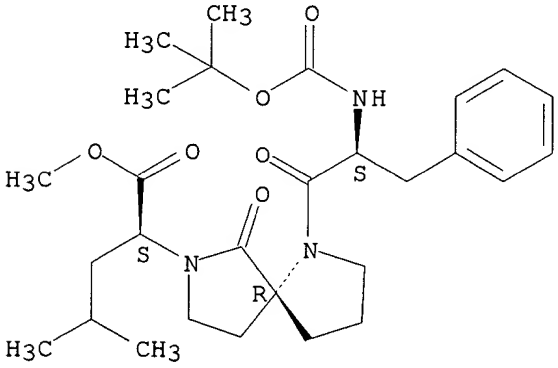
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetic acid, 1-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxo-3-phenylpropyl]-.alpha.-(2-methylpropyl)-6-oxo-, methyl ester, [5R-[1(S*),5R*,7(S*)]]- (9CI)**
MF C28 H41 N3 O6

Absolute stereochemistry.

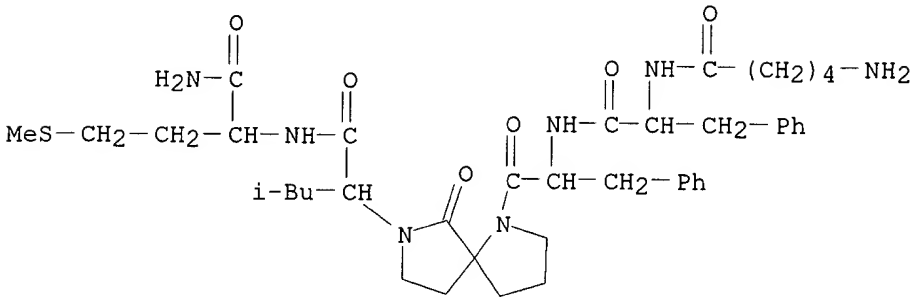


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 48 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN **1,7-Diazaspiro[4.4]nonane-7-acetamide, N-[1-(aminocarbonyl)-3-(methylthio)propyl]-1-[N-[N-(5-amino-1-oxopentyl)-L-phenylalanyl]-L-phenylalanyl]-.alpha.-(2-methylpropyl)-6-oxo-, [5R-[5R*,7[S*(S*)]]]- (9CI)**
SQL 6

MF C41 H59 N7 O6 S

RELATED SEQUENCES AVAILABLE WITH SEQLINK



ALL ANSWERS HAVE BEEN SCANNED

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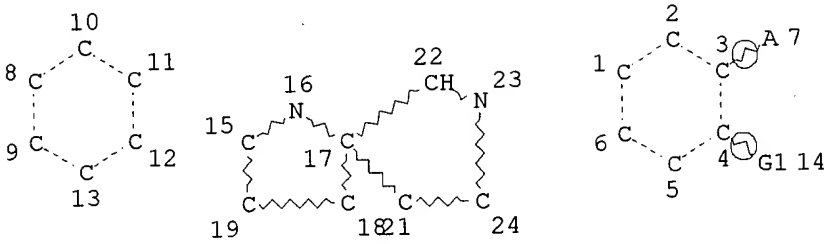
L3 HAS NO ANSWERS
L3 STR



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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

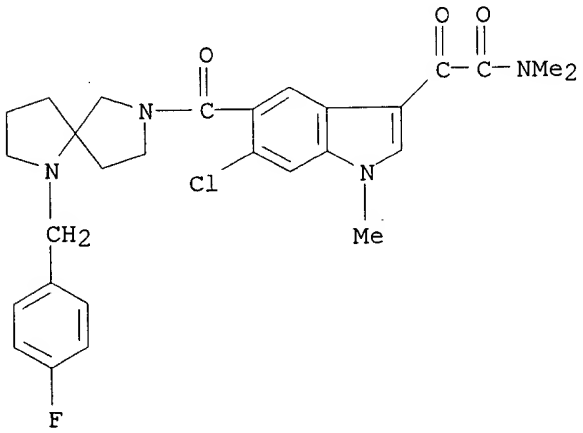
=> s l3 ful
FULL SEARCH INITIATED 10:45:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12792 TO ITERATE

100.0% PROCESSED 12792 ITERATIONS 15 ANSWERS
SEARCH TIME: 00.00.01

L5 15 SEA SSS FUL L3

=> d scan

L5 15 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN
IN 1H-Indole-3-acetamide, 6-chloro-5-[[1-[(4-fluorophenyl)methyl]-1,7-diazaspiro[4.4]non-7-yl]carbonyl]-N,N,1-trimethyl-.alpha.-oxo- (9CI)
MF C28 H30 Cl F N4 O3



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L6            4 L5

=> d bib abs hitstr 1-4

L6   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
AN   2002:428896  CAPLUS
DN   137:6088
TI   Preparation of indolecarboxamides as p38-.alpha. inhibitors
IN   Dugar, Sundeep; Mavunkel, Babu J.; Luedtke, Gregory R.; Mcenroe, Glen
PA   Scios Inc., USA
SO   PCT Int. Appl., 64 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.   DATE
     ---------------    ----  --------      ---------------   --------
PI   WO 2002044168      A2    20020606      WO 2001-US43439   20011120
     WO 2002044168      A3    20030522
          W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
              UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
              CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
              BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2002037657      A5    20020611      AU 2002-37657     20011120
     US 2003100588      A1    20030529      US 2001-989991    20011120
     EP 1339708         A2    20030903      EP 2001-986461    20011120
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRAI US 2000-252163P    P     20001120
     WO 2001-US43439    W     20011120
OS   MARPAT 137:6088
GI
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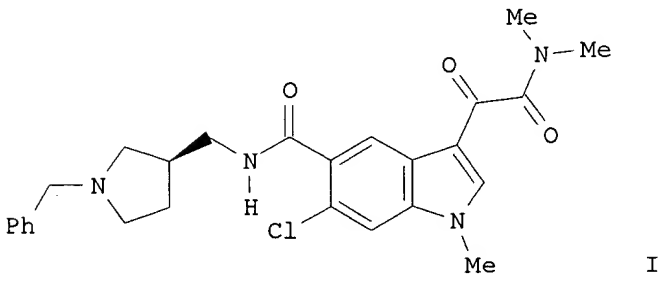


I

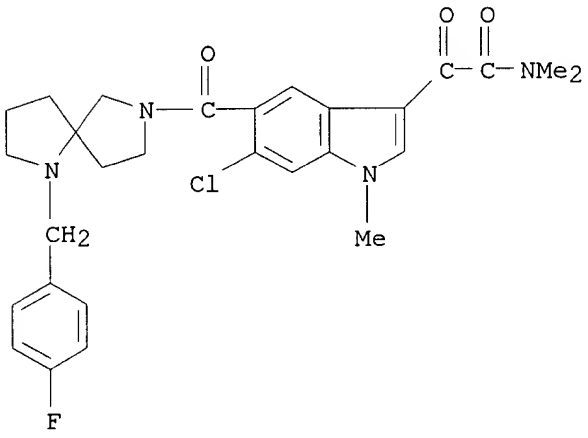
AB Title compds. were prepd. as p38-.alpha. inhibitors (no data). Thus, 6-chloro-1-methyl-1H-indole-5-carboxylic acid was amidated by (R)-3-aminomethyl-1-benzylpyrrolidine followed by acylation and amidation to give title compd. I.

IT **433286-59-0P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of indolecarboxamides as p38-.alpha. inhibitors)

RN 433286-59-0 CAPLUS

CN 1H-Indole-3-acetamide, 6-chloro-5-[[1-[(4-fluorophenyl)methyl]-1,7-diazaspiro[4.4]non-7-yl]carbonyl]-N,N,1-trimethyl-.alpha.-oxo- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:166394 CAPLUS

DN 126:225438

TI 1,3-Dipolar cycloaddition approach to indolic aza analogs of cephalotaxine

AU Nyerges, Miklos; Rudas, Monika; Bitter, Istvan; Toke, Laszlo

CS Dep. Org. Chem. Technol., Tech. Univ. Budapest, Budapest, H-1521, Hung.

SO Tetrahedron (1997), 53(9), 3269-3280
CODEN: TETRAB; ISSN: 0040-4020

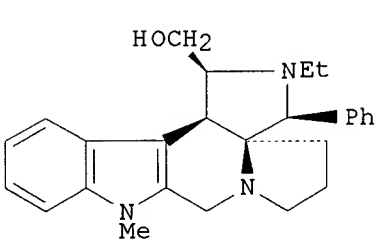
PB Elsevier

DT Journal

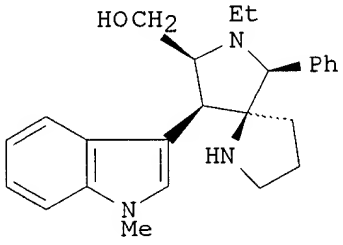
LA English

OS CASREACT 126:225438

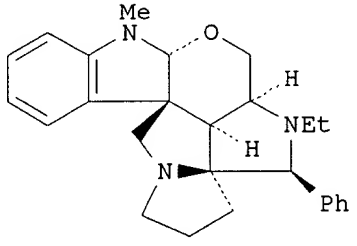
GI



I



II



III

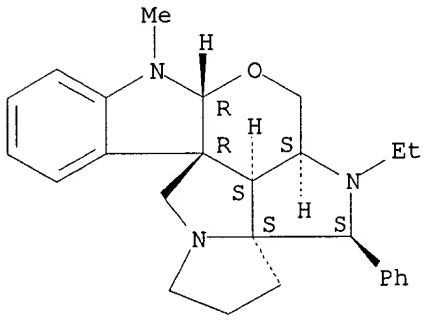
AB An indolic aza-analog I of cephalotaxine has been prepd. stereoselectively using 1,3-dipolar cycloaddn. of azomethine ylides as a key step. The Pictet-Spengler reaction of the amine II resulted in the formation of an unusual heterocyclic product III. The structure and stereochem. of III was were studied in detail by NMR. methods.

IT **188348-64-3P 188348-67-6P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(1,3-dipolar cycloaddn. approach to indolic aza analogs of cephalotaxine)

RN 188348-64-3 CAPLUS

CN 1H,6H,13H-7-Oxa-5,8,13a-triazacyclopenta[3a,4]pentaleno[1,6-cd]fluorene, 5-ethyl-2,3,4,5,5a,7a,8,12c-octahydro-8-methyl-4-phenyl-, (3aR*,4.alpha.,5a.beta.,7a.alpha.,12bS*,12c.beta.)- (9CI) (CA INDEX NAME)

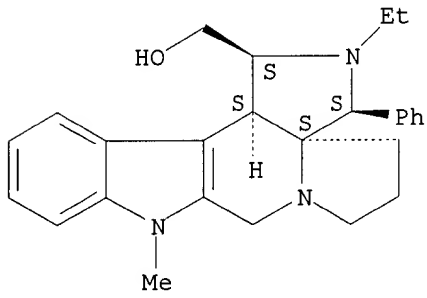
Relative stereochemistry.



RN 188348-67-6 CAPLUS

CN 4H-Pyrrolo[3',4':8,8a]indolizino[6,7-b]indole-1-methanol, 2-ethyl-1,2,3,5,6,8,9,13c-octahydro-9-methyl-3-phenyl-, (1.alpha.,3.alpha.,3aR*,13c.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

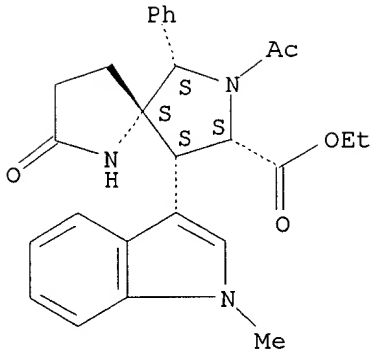


IT **188348-62-1P 188348-63-2P 188348-65-4P 188348-66-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(1,3-dipolar cycloaddn. approach to indolic aza analogs of cephalotaxine)

RN 188348-62-1 CAPLUS

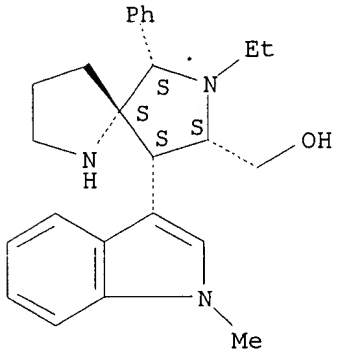
CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 7-acetyl-9-(1-methyl-1H-indol-3-yl)-2-oxo-6-phenyl-, ethyl ester, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



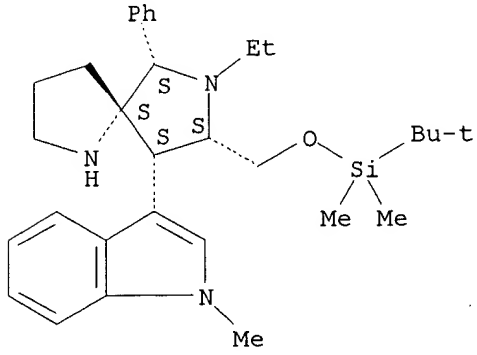
RN 188348-63-2 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-methanol, 7-ethyl-9-(1-methyl-1H-indol-3-yl)-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



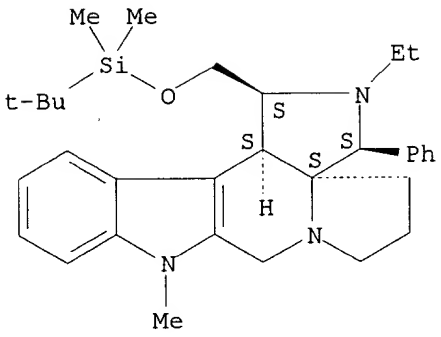
RN 188348-65-4 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane, 8-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-7-ethyl-9-(1-methyl-1H-indol-3-yl)-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

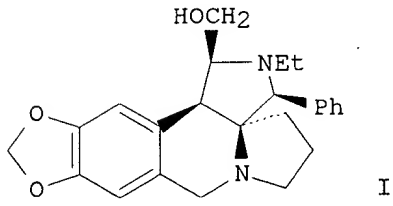


RN 188348-66-5 CAPLUS
CN 4H-Pyrrolo[3',4':8,8a]indolizino[6,7-b]indole, 1-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]methyl]-2-ethyl-1,2,3,5,6,8,9,13c-octahydro-9-methyl-3-phenyl-, (1.alpha.,3.alpha.,3aR*,13c.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1995:881131 CAPLUS
DN 124:9069
TI 1,3-Dipolar cycloaddition approach towards the stereoselective preparation of aza-cephalotaxine skeleton
AU Nyerges, Miklos; Bitter, Istvan; Kadas, Istvan; Toth, Gabor; Toke, Laszlo
CS Res. Group Hungarian Acad. Sci., Dep. Org. Chem., Budapest, H-1521, Hung.
SO Tetrahedron (1995), 51(42), 11489-502
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier
DT Journal
LA English
OS CASREACT 124:9069
GI



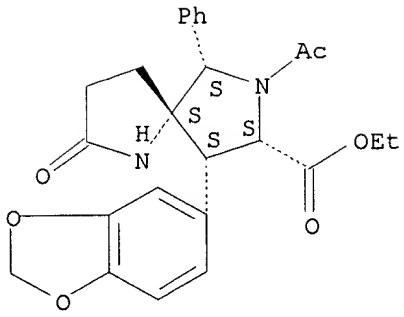
I

AB An aza-analog I of cephalotaxine was prepd. stereoselectively using 1,3-dipolar cycloaddn. of azomethine ylide as a key step.

IT **157035-39-7P 157035-40-0P 157035-41-1P 171020-26-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(dipolar cycloaddn. approach towards stereoselective prepn. of aza-cephalotaxine skeleton)

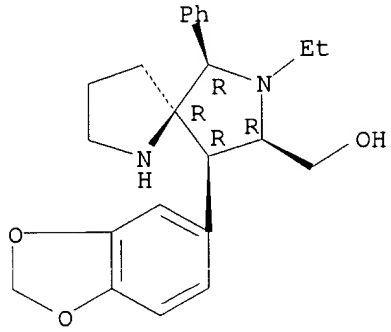
RN 157035-39-7 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 7-acetyl-9-(1,3-benzodioxol-5-yl)-2-oxo-6-phenyl-, ethyl ester, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



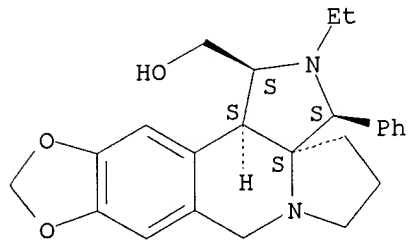
RN 157035-40-0 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-methanol, 9-(1,3-benzodioxol-5-yl)-7-ethyl-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



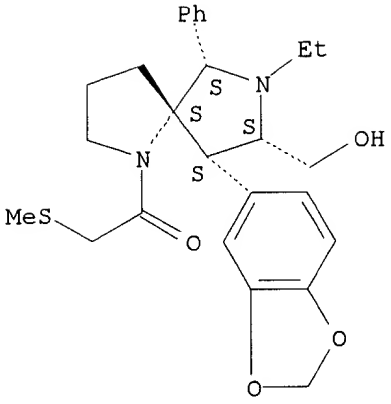
RN 157035-41-1 CAPLUS
CN 1H,4H-[1,3]Dioxolo[4,5-g]dipyrrolo[1,2-b:3',4'-c]isoquinoline-1-methanol, 2-ethyl-2,3,5,6,8,13b-hexahydro-3-phenyl-, (1.alpha.,3.alpha.,3aR*,13b.beta.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



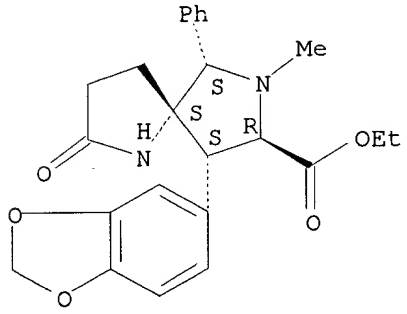
RN 171020-26-1 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-methanol, 9-(1,3-benzodioxol-5-yl)-7-ethyl-1-[(methylthio)acetyl]-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



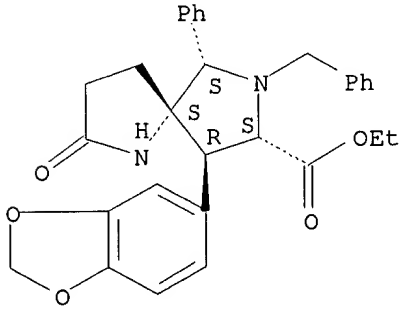
IT **171020-23-8P 171020-25-0P 171020-27-2P**
171231-94-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(dipolar cycloaddn. approach towards stereoselective prepn. of aza-cephalotaxine skeleton)
RN 171020-23-8 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 9-(1,3-benzodioxol-5-yl)-7-methyl-2-oxo-6-phenyl-, ethyl ester, (5.alpha.,6.alpha.,8.beta.,9.alpha.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 171020-25-0 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 9-(1,3-benzodioxol-5-yl)-2-oxo-6-phenyl-7-(phenylmethyl)-, ethyl ester, (5.alpha.,6.alpha.,8.alpha.,9.beta.)- (9CI) (CA INDEX NAME)

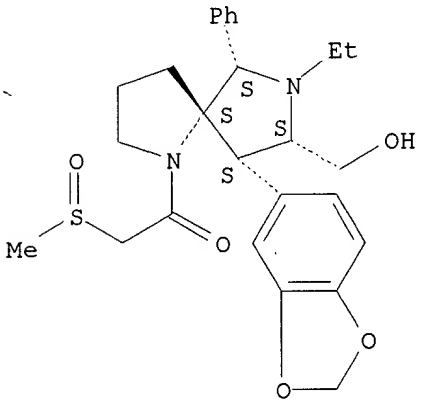
Relative stereochemistry.



RN 171020-27-2 CAPLUS

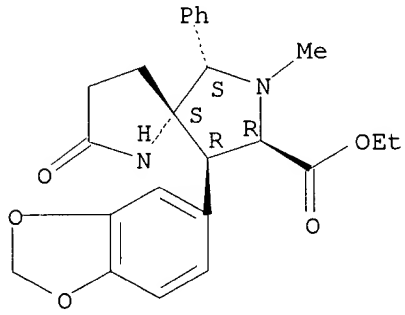
CN 1,7-Diazaspiro[4.4]nonane-8-methanol, 9-(1,3-benzodioxol-5-yl)-7-ethyl-1-[(methylsulfinyl)acetyl]-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

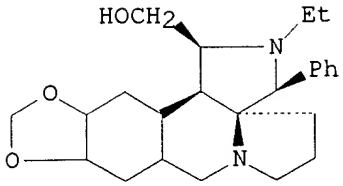


RN 171231-94-0 CAPLUS
CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 9-(1,3-benzodioxol-5-yl)-7-methyl-2-oxo-6-phenyl-, ethyl ester, (5.alpha.,6.alpha.,8.beta.,9.beta.)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1994:534528 CAPLUS
DN 121:134528
TI 1,3-Dipolar cycloaddition approach towards the stereoselective preparation of aza-cephalotaxine skeleton
AU Nyerges, Miklos; Bitter, Istvan; Kadas, Istvan; Toth, Gabor; Toke, Laszlo
CS Dep. Organic Chem. Technol., Techn. Univ. Budapest, Budapest, H-1521, Hung.
SO Tetrahedron Letters (1994), 35(25), 4413-14
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 121:134528
GI



I

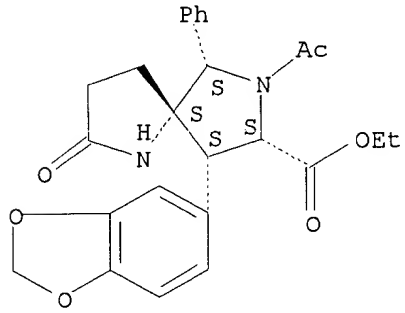
AB The aza-analog of a cephalotaxine skeleton I has been prepd. by series of reactions which include a 1,3-dipolar cycloaddn. in 100% diastereoselectivity.

IT **157035-39-7P 157035-40-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of, in prepn. of azacephalotaxine skeleton)

RN 157035-39-7 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-8-carboxylic acid, 7-acetyl-9-(1,3-benzodioxol-5-yl)-2-oxo-6-phenyl-, ethyl ester, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

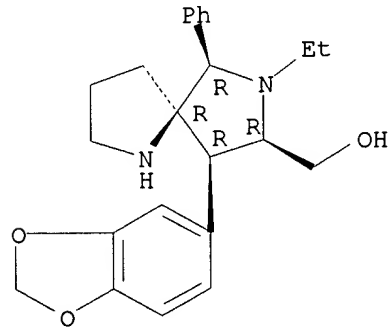
Relative stereochemistry.



RN 157035-40-0 CAPLUS

CN 1,7-Diazaspiro[4.4]nonane-8-methanol, 9-(1,3-benzodioxol-5-yl)-7-ethyl-6-phenyl-, (5.alpha.,6.alpha.,8.alpha.,9.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **157035-41-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 157035-41-1 CAPLUS

CN 1H,4H-[1,3]Dioxolo[4,5-g]dipyrrolo[1,2-b:3',4'-c]isoquinoline-1-methanol,

2-ethyl-2,3,5,6,8,13b-hexahydro-3-phenyl-, (1.alpha.,3.alpha.,3aR*,13b.bet
a.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.